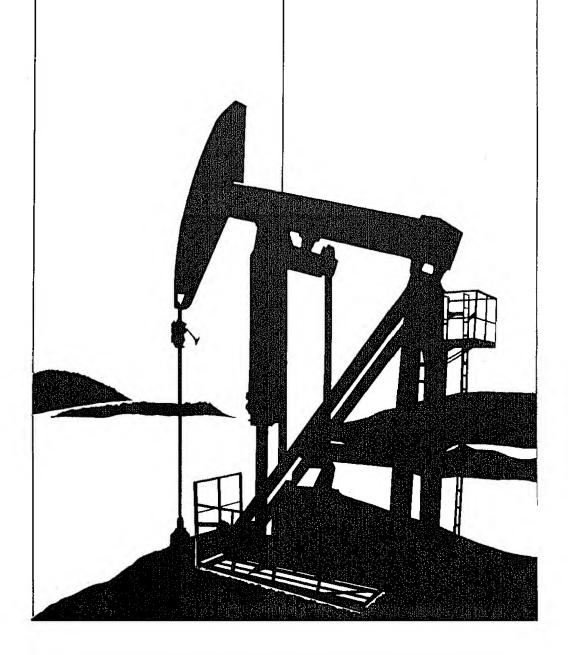
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Petroleum Supply Monthly



Energy Information Administration Office of Oil and Gas **U.S. Department of Energy**



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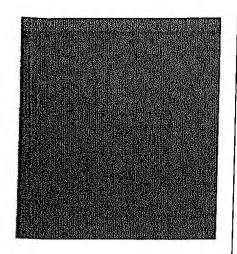
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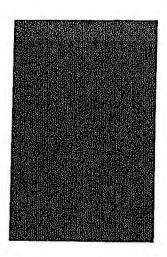
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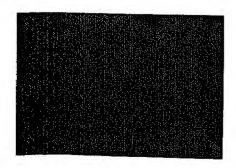
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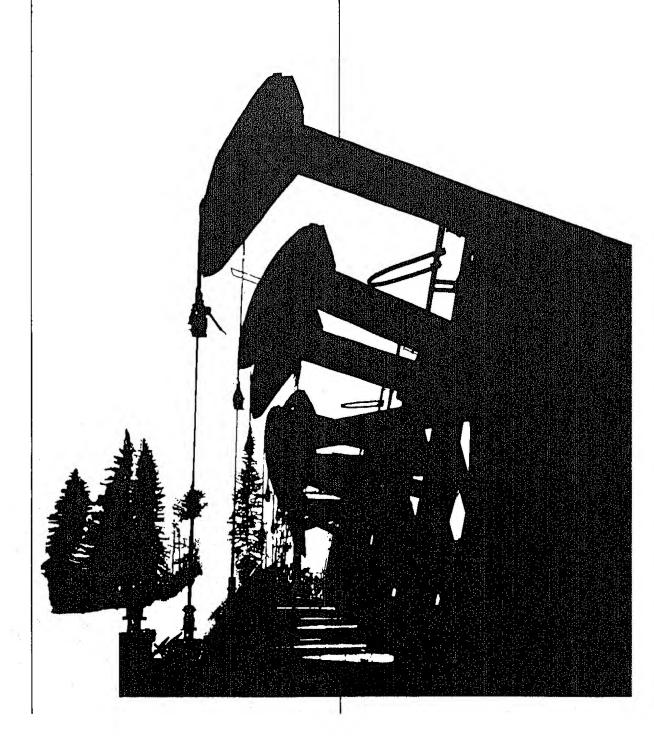


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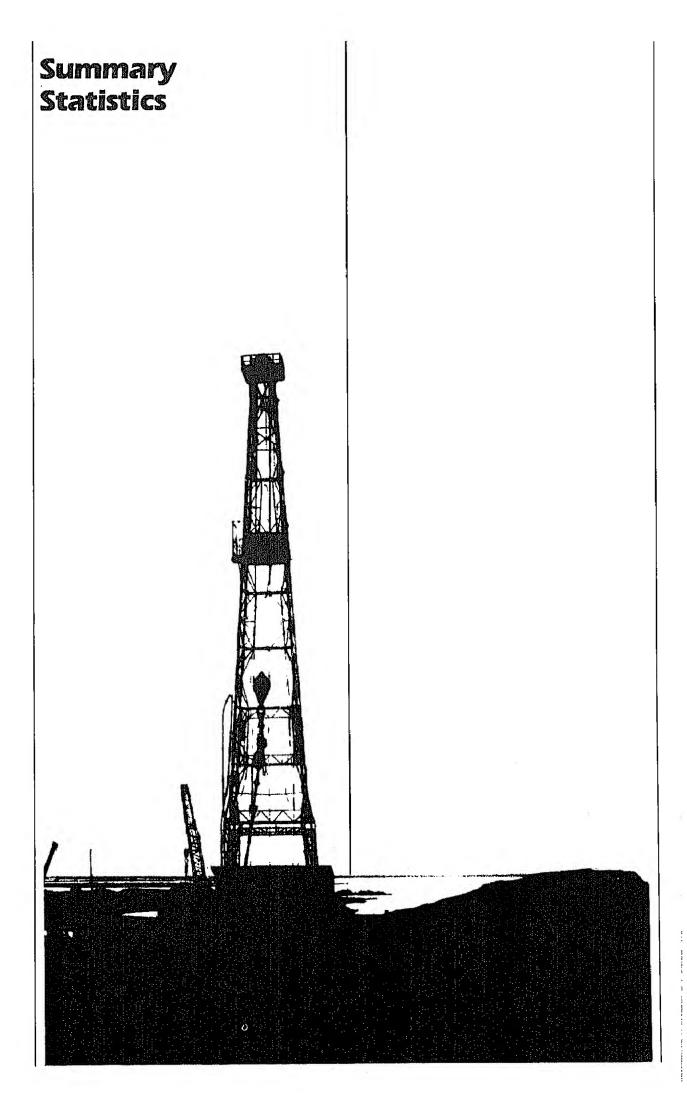
Petroleum Focus



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Crude Oil¹ and Petroleum Products Overview

| | | Fle | eld Producti | on | Stock V | Vithdrawal ² | | Ending Stocks ³ |
|------|------------|--------------------------------|--------------|------------------------------------|---------------------------|-------------------------|-----------------------------------|--|
| | | Total Domestic ⁴ | Crude Oll | Natural Gas Plant Production | Crude Oli ⁵ | Petroleum Products | Petroleum Products Supplied | Crude Oll ⁵ and Petroleum Products |
| | | | | Thousand Bar | rels per Day | , | | Millions of Barrels |
| 1973 | | 10,975 | 9,208 | 1,738 | 11 | 440 | | |
| 1974 | AVERAGE | 10,498 | 8,774 | 1,688 | | -146 | 17,308 | 1,008 |
| 1975 | | 10,045 | 8,375 | 1,633 | -62 | -117 | 16,653 | 1,074 |
| 1976 | AVERAGE | 9,774 | 8,132 | 1,603 | -17 | -145 | 16,322 | 1,133 |
| 1977 | AVERAGE | 9,913 | 8,245 | 1,618 | -39 | 96 | 17,461 | 1,112 |
| 1978 | AVERAGE | 10,328 | 8,707 | | -170 | -378 | 18,431 | 1,312 |
| 1979 | AVERAGE | 10,179 | 8,552 | 1,567 | -78 | 172 | 18,847 | 1,278 |
| 1980 | | 10,214 | 8,597 | 1,584 | -148 | ~25 | 18,513 | 1,341 |
| | | 10,14 | 0,597 | 1,573 | -98 | -42 | 17,056 | 1,392 |
| 1981 | January | 10,231 | 8,540 | 1,652 | 50 | 1,159 | 10.400 | |
| | February | 10,294 | 8,604 | 1,653 | -278 | 250 | 18,430 | 1,388 |
| | March | 10,272 | 8,613 | 1,624 | -632 | 224 | 16,989 | 1,389 |
| | April | 10,195 | 8,557 | 1,599 | -595 | | 15,907 | 1,401 |
| | Мау | 10,160 | 8,501 | 1,593 | -391 | 148 | 15,350 | 1,415 |
| | June | 10,287 | 8,629 | 1,594 | -135 | -374 | 15,353 | 1,438 |
| | July | 10,098 | 8,500 | 1,548 | -360 | 406 | 16,095 | 1,430 |
| | August | 10,243 | 8,583 | 1,614 | -360 397 | 91 | 15,682 | 1,439 |
| | September | 10,281 | 8,604 | 1,612 | | -999 | 15,263 | 1,457 |
| | October | 10,225 | 8,563 | 1,598 | -285 | -341 | 15,655 | 1,476 |
| | November | 10,269 | 8,586 | 1,630 | -760 | 477 | 15,822 | 1,485 |
| | December | 10,220 | 8,585 | | -325 | -233 | 15,593 | 1,501 |
| | | .0,220 | 0,505 | 1,590 | -170 | 745 | 16,596 | 1,484 |
| | AVERAGE | 10,230 | 8,572 | 1,609 | -290 | 130 | 16,058 | |
| 1982 | January | 10,257 | 8,669 | 1,548 | -236 | 1 100 | 45.000 | |
| | February | 10,261 | 8,690 | 1,524 | -216 | 1,129 | 15,890 | 1,461 |
| | March | 10,212 | 8,597 | 1,570 | -65 | 1,268 | 15,941 | 1,431 |
| | April | 10,296 | 8,652 | 1,588 | 107 | 1,049 | 15,560 | 1,401 |
| | May | 10,223 | 8,660 | 1,520 | 49 | 1,594 | 16,048 | 1,350 |
| | June | 10,242 | 8,681 | 1,505 | 86 | -34 | 14,845 | 1,349 |
| | July | 10,228 | 8,649 | 1,521 | -15 5 | -515 | 14,931 | 1,362 |
| | August | 10,301 | 8,701 | 1,543 | -155 -44 0 | -865 | 14,771 | 1,394 |
| | September | 10,306 | 8,733 | 1,513 | -440 252 | 4 | 14,838 | 1,407 |
| | October* | 10,283 | 8,676 | 1,513 | | -489 | 14,921 | 1,415 |
| | November** | NA | 8,690 | NA | R-564 | R -55 | R 14,820 | R 1,434 |
| | | | 0,000 | IVA | -134 | -214 | 14,709 | 1,443 |
| | AVERAGE | NA . | 8,672 | NA | -121 | 254 | 15,201 | |

¹ Includes lease condensate.

Includes lease condensate.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Ending stocks for 1973-1980 are totals as of December 31.

Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.

Includes stocks located in the Strategic Petroleum Reserve.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

See Explanatory Note 5.1.

Italics denote preliminary data. See Explanatory Note 2.7.

Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oil¹ and Petroleum Products Overview (continued)

| | | | Imports ² | T | | Exports ³ | T | |
|------|------------|---------|---------------------------|-----------------------|--------------|----------------------|-----------------------|-----------------------------|
| | | Total | Crude Oil ⁴ | Petroleum Products | Total | Crude OII | Petroleum Products | Net ⁵ Imports |
| | | | | Thousa | nd Barrels p | er Day | | |
| 1973 | AVERAGE | 6,256 | 3,244 | 3,012 | 231 | 2 | 229 | 6,025 |
| 1974 | AVERAGE | 6,112 | 3,477 | 2.635 | 221 | 3 | 218 | 5,892 |
| 975 | AVERAGE | 6,056 | 4,105 | 1,951 | 209 | 6 | 204 | 5,846 |
| 1976 | AVERAGE | 7,313 | 5,287 | 2,026 | 223 | 8 | 215 | 7,090 |
| 1977 | AVERAGE | 8,807 | 6,615 | 2,193 | 243 | 50 | 193 | 8,565 |
| 978 | AVERAGE | 8,363 | 6,356 | 2,008 | 362 | 158 | 204 | 8,002 |
| 1979 | AVERAGE | 8,456 | 6,519 | 1,937 | 472 | 235 | 237 | 7,984 |
| 980 | AVERAGE | 6,909 | 5,263 | 1,646 | 544 | 287 | 258 | 6,365 |
| 981 | January | 6,827 | 4,932 | 1,895 | 558 | 339 | 219 | 6,270 |
| | February | 6,772 | 4,873 | 1,899 | 5 6 9 | 198 | 371 | 6,203 |
| | March | 6,028 | 4,521 | 1,507 | 586 | 210 | 376 | 5,442 |
| | April | 5,668 | 4,338 | 1,330 | 570 | 198 | 372 | 5,098 |
| | May | 5,775 | 4,287 | 1,489 | 595 | 312 | 283 | 5,180 |
| | June | 5,435 | 4,061 | 1,375 | 420 | 123 | 297 | 5,015 |
| | July | 5,816 | 4,296 | 1,521 | 571 | 257 | 314 | 5,245 |
| | August | 5,767 | 4,179 | 1,588 | 644 | 204 | 440 | 5,123 |
| | September | 6,365 | 4,740 | 1,624 | 519 | 194 | 325 | 5,845 |
| | October | 5,959 | 4,380 | 1,579 | 738 | 226 | 512 | 5,221 |
| | November | 5,741 | 4,046 | 1,695 | 701 | 278 | 423 | 5,041 |
| | December | 5,843 | 4,137 | 1,706 | 656 | 189 | 467 | 5,187 |
| | AVERAGE | 5,996 | 4,396 | 1,599 | 595 | 228 | 367 | 5,401 |
| 1982 | January | 5,232 | 3,648 | 1,585 | 829 | 238 | 591 | 4,404 |
| | February | 4,691 | 2,949 | 1,742 | 804 | 304 | 499 | 3,887 |
| | March | 4,461 | 2,856 | 1,606 | 882 | 321 | 561 | 3,579 |
| | April | 4,286 | 2,813 | 1,474 | 786 | 174 | 611 | 3,501 |
| | May | 4,784 | 3,314 | 1,471 | 803 | 262 | 542 | 3,981 |
| | June | 5,227 | 3,782 | 1,445 | 703 | 94 | 609 | 4,524 |
| | July | 5,763 | 4,245 | 1,518 | 741 | 229 | 512 | 5,022 |
| | August | 5,156 | 3,820 | 1,336 | 858 | 304 | 554 | 4,298 |
| | September | 5,359 | 3,603 | 1,757 | 791 | 184 | 606 | 4,569 |
| | October* | R 5,230 | P 3,636 | R 1,594 | 932 | 270 | 662 | 4,298 |
| | November** | 5,189 | 3,688 | 1,501 | NA | NA | NA | NA |
| | AVERAGE | 5,038 | 3,492 | 1,546 | NA | NA | NA | NA |

¹ Includes lease condensate.

Includes rease condensate.
 Includes shipments from United States possessions and territories.
 Includes shipments to United States possessions and territories.
 Includes crude oil for storage in the Strategic Petroleum Reserve.

⁵ Net Imports = Imports minus Exports.

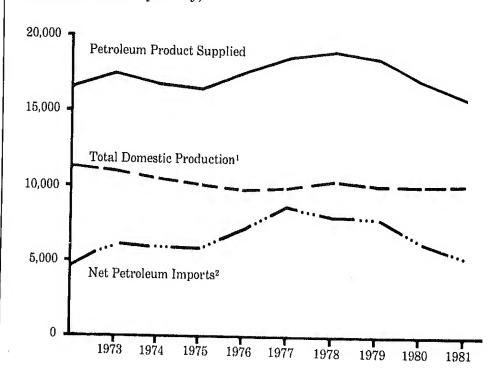
Totals may not equal sum of components due to Independent rounding.

NA = Not available. R = Revised data.

* See Explanatory Note 5.1.

^{**} Italics denote preliminary data. See Explanatory Note 2.7.
Geographic coverage: The 50 United States and the District of Columbia.
Sources: See "Sources" at the end of this section.

Petroleum Overview, Annual (Thousand Barrels per Day)



¹Includes crude oil and natural gas plant production.

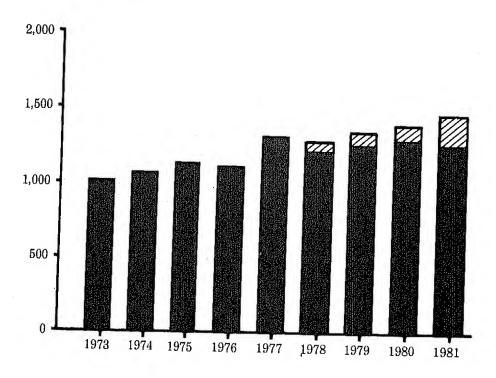
²Includes SPR imports.

Source table: "Crude Oil and Petroleum Products Overview."

Legend

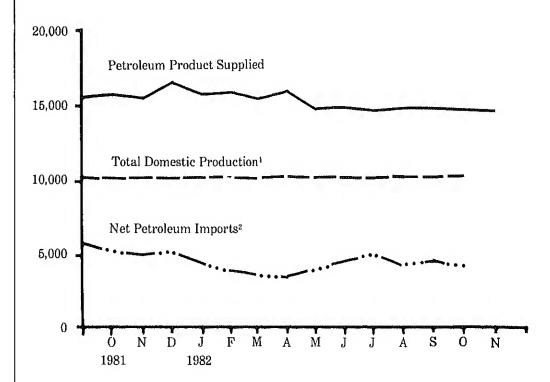
SPR Crude Oil

Crude Oil and Petroleum Products, Excluding SPR Crude Oil and Petroleum Products Ending Stocks, Annual (Millions of Barrels)



Source tables: "Crude Oil and Petroleum Products Overview" and "Crude Oil Supply and Disposition."

Petroleum Overview, Monthly (Thousand Barrels per Day)



¹Includes crude oil and natural gas plant production.

²Includes SPR imports.

Source table: "Crude Oil and Petroleum Products Overview."

Legend

SPR Crude Oil

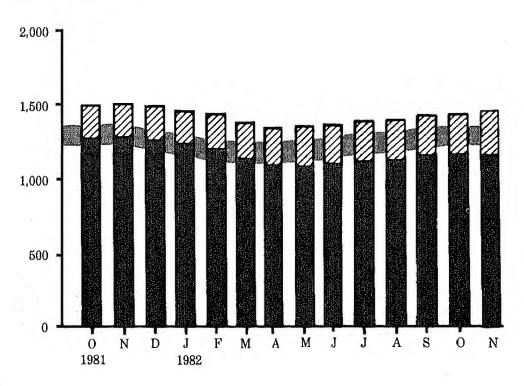
Crude Oil and Petroleum Products, Excluding SPR

Average Stock Range

¹Average stock range (excluding SPR) based on 3 years of data. See Explanatory Note 2.5.

Source tables: "Crude Oil and Petroleum Products Overview" and "Crude Oil Supply and Disposition."

Crude Oil and Petroleum Product Ending Stocks, Monthly (Millions of Barrels)



Crude Oil¹ Supply and Disposition

| | | | | | Supply | | | | |
|------|---------------------|-------------------|----------|-----------|----------------------|----------------|--------------|----------------------------------|--|
| | | Fleid Pro | oduction | | Imports ² | | | Stock Withdrawai ³ | |
| | | Total Domestic | Alaskan | Total | SPR4 | Other | SPR4 | Other | |
| | | | | Thous | and Barrels | per Day | | | |
| 1973 | AVERAGE | 9,208 | 198 | 3,244 | | 3,244 | | | |
| 1974 | AVERAGE | 8,774 | 193 | 3,477 | | 3,477 | | 11 | |
| 1975 | AVERAGE | 8,375 | 191 | 4,105 | | 4,105 | | -62 | |
| 1976 | AVERAGE | 8,132 | 173 | 5,287 | | 5,287 | | -17 | |
| 1977 | AVERAGE | 8,245 | 464 | 6,615 | 21 | 6,594 | | -39 | |
| 1978 | AVERAGE | 8,707 | 1,229 | 6,356 | 162 | | -20 | -150 | |
| 1979 | AVERAGE | 8,552 | 1.401 | 6,519 | 67 | 6,195 | -163 | 84 | |
| 1980 | AVERAGE | 8,597 | 1,617 | 5,263 | 44 | 6,452 | -67 | -81 | |
| | | -, | ., | 0,200 | 44 | 5,219 | -45 | -52 | |
| 1981 | January | 8,540 | 1,606 | 4,932 | 106 | 4.000 | | | |
| | February | 8,604 | 1,619 | 4.873 | 80 | 4,826 | -151 | 201 | |
| | March | 8,613 | 1,618 | 4,521 | 140 | 4,793 | -127 | -150 | |
| | April | 8.557 | 1,608 | 4,338 | 272 | 4,382 | -155 | -477 | |
| | May | 8,501 | 1,580 | 4,330 | 386 | 4,066 | -444 | -151 | |
| | June | 8,629 | 1,632 | 4,061 | | 3,901 | -513 | 122 | |
| | July | 8,500 | 1,605 | 4,296 | 318 | 3,743 | -434 | 299 | |
| | August | 8,583 | 1,602 | 4,179 | 175 | 4,121 | -324 | -36 | |
| | September | 8,604 | 1,607 | 4,179 | 257 | 3,922 | -372 | 769 | |
| | October | 8,563 | 1,596 | • • • • • | 435 | 4,305 | -486 | 201 | |
| | November | 8,586 | 1,614 | 4,380 | 453 | 3,927 | -501 | -259 | |
| | December | 8.585 | | 4,046 | 271 | 3,774 | -259 | -66 | |
| | - C C C (1 C C) | 0,000 | 1,623 | 4,137 | 165 | 3,971 | -252 | 82 | |
| | AVERAGE | 8,572 | 1,609 | 4,396 | 256 | 4,141 | -336 | 46 | |
| 1982 | January | 8,669 | 1,712 | 3,648 | 170 | 3,478 | -159 | 77 | |
| | February | 8,690 | 1,715 | 2,949 | 159 | 2,790 | -159 -213 | -77 | |
| | March | 8,597 | 1,702 | 2,856 | 185 | 2,790 | | -3 | |
| | April | 8,652 | 1,687 | 2,813 | 190 | 2,623 | -235 | 170 | |
| | May | 8,660 | 1,725 | 3,314 | 204 | | -233 | 341 | |
| | June | 8,681 | 1,675 | 3.782 | 105 | 3,110 3.678 | -176 | 225 | |
| | July | 8,649 | 1,715 | 4,245 | 97 | | -105 | 191 | |
| | August | 8,701 | 1,699 | 3,820 | | 4,147 | -97 | -58 | |
| | September | 8,733 | 1,707 | 3,603 | 208 | 3,611 | -208 | -233 | |
| | October* | 8,676 | 1,677 | R 3,636 | 139 | 3,463 | -143 | 395 | |
| | November** | 8,690 | 1.667 | 3,688 | R 216 | R 3,420 | R -216 | R ~348 | |
| | | -, | 1,007 | 3,000 | 163 | 3,525 | -164 | 29 | |
| | AVERAGE | 8,672 | 1,698 | 3,492 | 167 | 3,324 | -177 | 56 | |

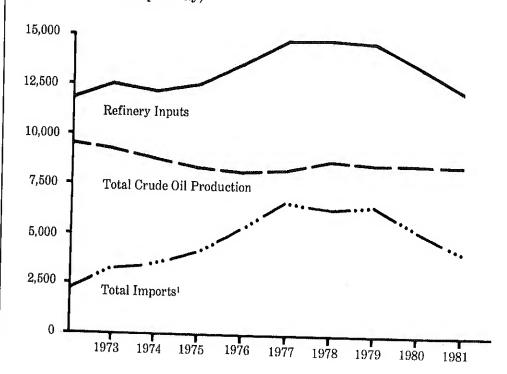
Includes lease condensate.

Crude Oil¹ Supply and Disposition (continued)

| | | Supply (C | ontinued) | Dispo | sition | Eı | nding Stock | 8 ² |
|------------------------------|---|---|--|--|---|--|---|---|
| | | Unac- counted for Crude Oll | Crude Used Directly and Losses | Refinery Inputs | Exports ³ | Total Crude Oll | SPR4 | Other Primary |
| | | | Thousand Ba | arrels per Day | | Mil | lions of Barr | els |
| 1973 1974 1975 1976 | AVERAGE AVERAGE AVERAGE AVERAGE | 3 -25 17 77 | -32 -28 -30 -33 | 12,431 12,133 12,442 13,416 | 2 3 6 8 | 242 265 271 285 | | 242 265 271 285 |
| 1977 1978 1979 1980 | AVERAGE AVERAGE AVERAGE AVERAGE | -6 -57 -11 34 | -30 -30 -29 -28 | 14,602 14,739 14,648 13,481 | 50 158 235 287 | 348 376 430 466 | 7 67 91 108 | 340 309 339 358 |
| 1981 | January February March April May | 113 -41 154 51 286 | -49 -58 -63 -62 -62 | 13,247 12,902 12,383 12,091 12,309 | 339 198 210 198 312 | 486 494 514 532 544 | 112 116 121 134 150 | 374 378 393 397 394 |
| | June July August September October | 49 147 16 -295 166 | -65 -65 -63 -65 -66 | 12,415 12,261 12,908 12,505 12,057 | 123 257 204 194 226 | 548 559 547 555 579 | 163 173 185 199 215 | 385 386 362 356 364 |
| | November December AVERAGE | 279 52 83 | -68 -67 - 63 | 12,240 12,349 12,470 | 278 189 228 | 589 594 | 223 230 | 366 363 |
| 1982 | January February March April May June July August September October* November** | -138 199 278 56 105 110 1 140 -218 324 NA | -66 -66 -68 -68 -65 -67 -63 -59 -59 -59 NA | 11,638 11,252 11,277 11,386 11,801 12,498 12,447 11,858 12,126 R 11,750 11,792 | 238 304 321 174 262 94 229 304 184 270 NA | 606 612 614 611 609 607 612 625 618 R 635 | 235 241 249 256 261 264 267 274 278 285 289 | 371 371 366 355 348 343 345 352 340 Fl 351 |
| | AVERAGE | NA NA | NA NA | 11,805 | NA NA | 044 | 203 | 394 |

Includes lease condensate.
 Ending stocks for 1973-1980 are totals as of December 31.
 Includes shipments to United States possessions and territories.
 Strategic Petroleum Reserve.
 Totals may not equal sum of components due to independent rounding.
 NA = Not available. R = Revised data.
 See Explanatory Note 5.2.
 Italics denote preliminary data. See Explanatory Note 2.7.
 Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Crude Oil Supply and Disposition, Annual (Thousand Barrels per Day)



Includes SPR imports.

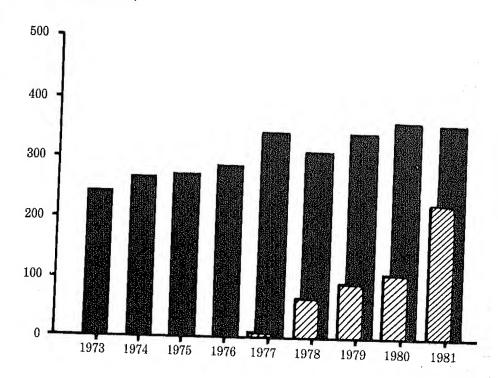
Source table: "Crude Oil Supply and Disposition."

Legend

ZZ SPR

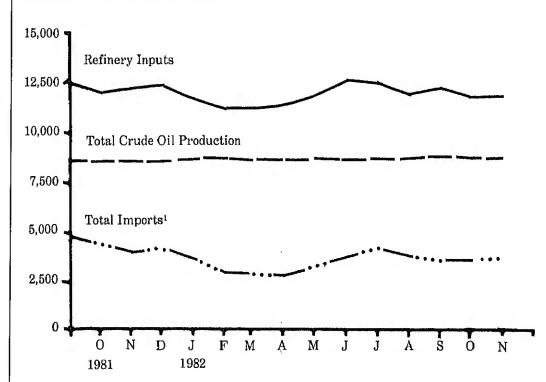
Other Primary

Crude Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Crude Oil Supply and Disposition."

Crude Oil Supply and Disposition, Monthly (Thousand Barrels per Day)



Includes SPR imports.

Source table: "Crude Oil Supply and Disposition."

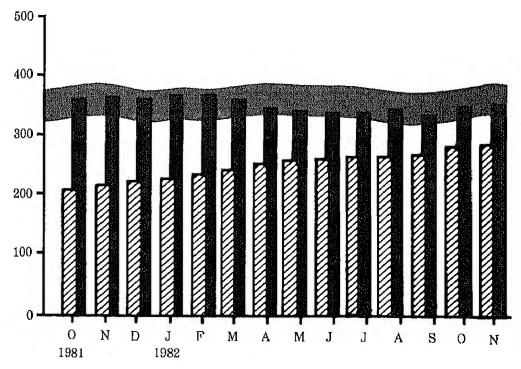
Legend

ZZ SPR

Other Primary

Average Stock Range¹

Crude Oil Ending Stocks, Monthly (Millions of Barrels)



¹Average stock range (excluding SPR) based on 3 years of data, See Explanatory Note 2.5.

Source table: "Crude Oil Supply and Disposition,"

| | | | Supply | , | | Dis | position | | Ending | Stocks |
|------|--------------------------|---------|----------------------|---|--------------|------------------|-----------------------|---------------------|---|-------------------------------|
| | | : | | | | | Product Suppli | ed | | |
| | Total Produc- tion | Produc- | Imports ¹ | Stock With- drawal ^{1 2} | Exports | Total | Unleaded ⁴ | Unleaded | Total Motor Gasoline ³ | Finished Motor Gasoline |
| | | | | Thousand Ba | rrels per Da | у | | Percent of Total | Millions o | of Barrels |
| 1973 | AVERAGE | 6,535 | 134 | 9 | 4 | 6,674 | NA | NA | 209 | *** |
| 1974 | AVERAGE | 6,360 | 204 | ~24 | 2 | 6,537 | NA | NA | 218 | |
| 1975 | AVERAGE | 6,520 | 184 | -28 | 2 | 6,675 | NA | NA | 235 | 4 |
| 1976 | AVERAGE | 6,841 | 131 | 10 | 3 | 6,978 | NA | NA | 231 | |
| 1977 | AVERAGE | 7,033 | 217 | -72 | 2 | 7,177 | 1,976 | 27.5 | 258 | |
| 1978 | AVERAGE | 7,169 | 190 | 54 | 1 | 7,412 | 2,521 | 34.0 | 238 | |
| 1979 | AVERAGE | 6,852 | 181 | 2 | (s) | 7,034 | 2,798 | 39,8 | 237 | |
| 1980 | AVERAGE | 6,506 | 140 | -66 | `´1 | 6,579 | 3,067 | 46.6 | 261 | |
| 1981 | January | 6,715 | 138 | -421 | (s) | 6,431 | 3,141 | 48.8 | 276 | 227 |
| | February | 6,308 | 111 | -118 | `´1 | 6,301 | 3,095 | 49,1 | 284 | 230 |
| | March | 6,213 | 171 | -81 | (s) | 6,303 | 3,097 | 49.1 | 285 | 232 |
| | April | 6,114 | 186 | 303 | (s) | 6,602 | 3,284 | 49.7 | | |
| | May | 6,122 | 150 | 344 | `´1 | 6,615 | 3,115 | 47.1 | 272 259 | 223 |
| | June | 6,220 | 186 | 622 | i | 7,028 | 3,419 | 48.6 | 242 | 213 |
| | July | 6,405 | 151 | 268 | (s) | 6,823 | 3,424 | 50.2 | 228 | 194 |
| | August | 6,611 | 124 | -95 | `´3 | 6,637 | 3,344 | 50.4 | | 186 |
| | September | 6,564 | 169 | -70 | 2 | 6,662 | 3,338 | 50.4 | 233 | 189 |
| | October | 6,426 | 147 | 7 | 3 | 6,578 | 3,257 | 49,5 | 237 | 191 |
| | November | 6,564 | 148 | -338 | 1 | 6,373 | 3,198 | | 236 | 190 |
| | December | 6,586 | 197 | -91 | 11 | 6,681 | 3,444 | 50.2 51.5 | 248 253 | 201 203 |
| | AVERAGE | 6,405 | 157 | 28 | 2 | 6,588 | 3,264 | 49.5 | | |
| 1982 | January | 6,181 | 114 | -358 | 18 | 5,920 | 9.000 | 54.0 | | |
| | February | 5,917 | 133 | 28 | 8 | 6,070 | 3,033 | 51.2 | 262 | 214 |
| | March | 6,004 | 183 | 469 | 44 | 6,612 | 3,145 | 51.8 | 262 | 213 |
| | April | 6,104 | 177 | 641 | 33 | 6,890 | 3,396 | 51.4 | 248 | 199 |
| | May | 6,322 | 163 | 188 | 23 | 6,650 | 3,494 | 50.7 | 223 | 180 |
| | June | 6,767 | 195 | -136 | 14 | 6,812 | 3,415 | 51.3 | 215 | 174 |
| | July | 6,788 | 200 | -165 | 24 | 6,799 | 3,561 | 52,3 | 220 | 178 |
| | August | 6,447 | 284 | -60 | 16 | 6,655 | 3,574 | 52,6 | 226 | 183 |
| | September | _ 6,530 | 215 | -217 | 22 | 6,507 | 3,520 | 52.9 | 226 | 185 |
| | October* | R6,253 | 177 | -25 | 15 | 6,307 R 6,391 | 3,385 | 52.0 | 234 | 191 |
| | November** | 6,171 | NA | NA | NA | 6,448 | 3,360 NA | 52.6 NA | R 234 <i>226</i> | 192 |
| | AVERAGE | 6,319 | NA | NA | NA | 6,525 | NA. | NA. | 220 | NA : |

Beginning in 1981 excludes blending components.
A negative number indicates an increase in stocks and a positive number indicates a decrease.
Includes motor gasoline blending components. Ending stocks for 1973-1980 are totals as of December 31.

⁴ includes gasohol.

Totals may not equal sum of components due to independent rounding.

(*) = Less than 500 barrels. NA = Not available. R = Revised

* See Explanatory Note 5.3. R = Revised data.

See Explanatory Note 5.3.

Italics denote preliminary data. See Explanatory Note 2.7.

Notes: Beginning in January 1981, survey forms were modified. See Explanatory Note 4 on Changes for the effects on motor gasoline statistics.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Distillate Fuel Oil Supply and Disposition

| | | | Su | pply | | Dispe | osition | Ending Stocks ¹ |
|------|------------|---------------------|-----------|----------------------------------|---------------------------|------------|---------------------|-------------------------------|
| | | Total Production | Imports | Stock Withdrawal ² | Crude Used Directly | Exports | Product Supplied | |
| | | | | Thousand Bar | rels per Day | | | Millions of Barrels |
| 1973 | AVERAGE | 2,822 | 392 | -115 | 2 | 9 | 3,092 | 196 |
| 1974 | AVERAGE | 2,669 | 289 | -9 | 2 | 2 | 2,948 | 200 |
| 1975 | AVERAGE | 2,654 | 155 | 40 | 2 | 1 | 2,851 | 209 |
| 1976 | AVERAGE | 2,924 | 146 | 62 | 1 | i | 3,133 | 186 |
| 1977 | AVERAGE | 3,278 | 250 | -176 | i | i | 3,352 | 250 |
| 1978 | AVERAGE | 3,167 | 173 | 93 | i | 3 | 3,432 | 216 |
| 1979 | AVERAGE | 3,153 | 193 | -34 | i | 3 | 3,311 | 229 |
| 1980 | AVERAGE | 2,662 | 142 | 64 | i | 3 | 2,866 | 205 |
| 1981 | January | 2,989 | 273 | 836 | 11 | (s) | 4,109 | 179 |
| | February | 2,809 | 325 | 246 | 11 | `17 | 3,373 | 173 |
| | March | 2,484 | 147 | 264 | 9 | (s) | 2,904 | 164 |
| | April | 2,418 | 116 | -9 | 10 | 3 | 2,532 | 165 |
| | May | 2,454 | 179 | -232 | 10 | | | |
| | June | 2,501 | 225 | -270 | 9 | (s) (s) | 2,411 | 172 |
| | July | 2,395 | 179 | -204 | 10 | | 2,464 | 180 |
| | August | 2,656 | 174 | -204 -450 | | 2 | 2,378 | 186 |
| | September | 2,610 | 129 | -450 -235 | 8 | (5) | 2,388 | 200 |
| | October | 2,485 | 119 | -235 197 | 10 | 1 | 2,513 | 207 |
| | November | 2,716 | 124 | | 9 | 5 | 2,803 | 201 |
| | December | 2,856 | 124 95 | 36 | 11 | 6 | 2,880 | 200 |
| | December | 2,000 | 95 | 277 | 11 | 26 | 3,212 | 192 |
| | AVERAGE | 2,613 | 173 | 38 | 10 | 5 | 2,829 | |
| 1982 | January | 2,615 | 96 | 780 | 10 | 90 | 3,410 | 166 |
| | February | 2,447 | 130 | 689 | 11 | 90 | 3,187 | 147 |
| | March | 2,294 | 48 | 612 | 10 | 84 | 2,881 | 128 |
| | April | 2,357 | 59 | 631 | 13 | 64 | 2,996 | 109 |
| | May | 2,618 | 74 | -184 | 10 | 75 | 2,444 | 114 |
| | June | 2,731 | 100 | -335 | 10 | 55 | 2,450 | 125 |
| | July | 2,734 | 124 | ~761 | 11 | 24 | 2,084 | 148 |
| | August | 2,526 | 79 | -346 | 10 | 40 | 2,228 | 159 |
| | September | 2,658 | 59 | -77 | 12 | 139 | 2,514 | 161 |
| | October* | R 2,837 | R 97 | R -290 | 8 | 66 | R 2,586 | R 170 |
| | November** | 2,885 | 80 | -566 | NA | NA | 2,330 | 182 |
| | AVERAGE | 2,610 | 86 | 9 | NA | NA | 2,642 | |

¹ Ending stocks for 1973 - 1980 are totals as of December 31.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Totals may not equal sum of components due to independent rounding,

(s) = Less than 500 barrels per day. NA = Not available. R = Revised data.

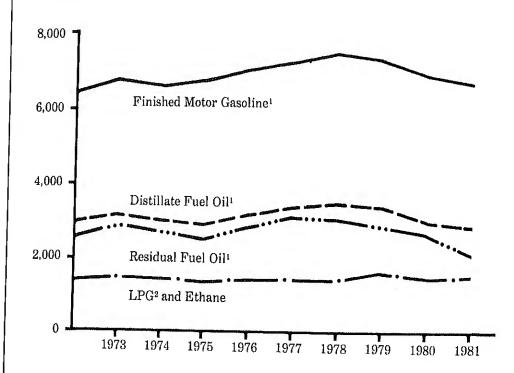
* See Explanatory Note 5.4.

^{**} Italics denote preliminary data. See Explanatory Note 2.7.

Note: Beginning in January 1981, survey forms were modified. See Explanatory Note 4 on Changes for the effects on Distillate Fuel Oil statistics.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Products Supplied, Annual (Thousand Barrels per Day)

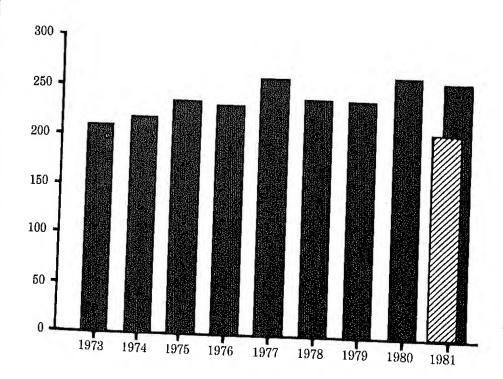


Figures for 1979 and 1980 recast to account for data system changes in 1981. See Explanatory Note 4.

²Liquefied Petroleum Gases.

Source tables: "Finished Motor Gasoline Supply and Disposition," "Distillate Fuel Oil Supply and Disposition," "Residual Fuel Oil Supply and Disposition," "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Motor Gasoline¹ Ending Stocks, Annual (Millions of Barrels)



Legend

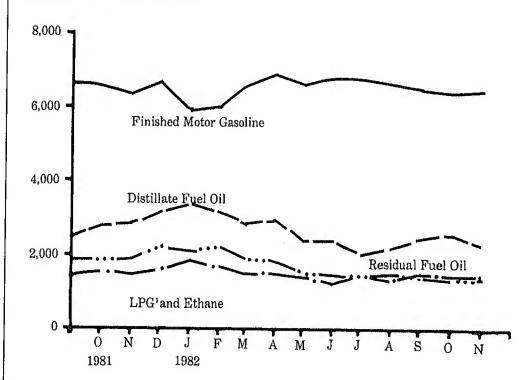
Total

Finished

¹Includes finished motor gasoline blending components.

Source table: "Finished Motor Gasoline Supply and Disposition."

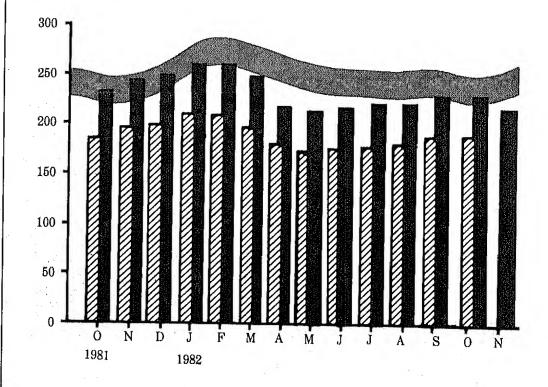
Products Supplied, Monthly (Thousand Barrels per Day)



¹Liquefied Petroleum Gases.

Source tables: "Finished Motor Gasoline Supply and Disposition," "Distillate Fuel Oil Supply and Disposition," "Residual Fuel Oil Supply and Disposition," "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Motor Gasoline Ending Stocks, Monthly (Millions of Barrels)



Legend

Total Motor Gasoline¹

Finished Motor Gasoline

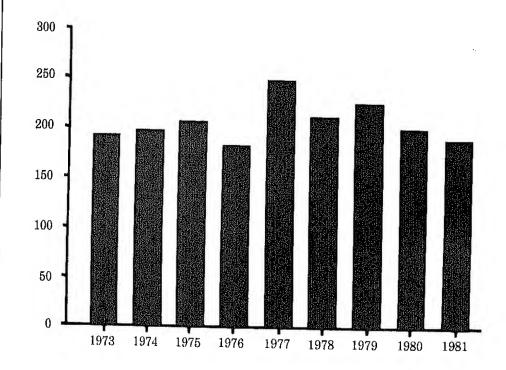
Average Stock Range²

¹Includes finished motor gasoline blending components.

²Average stock range for total motor gasoline based on 3 years of data. See Explanatory Note 2.5.

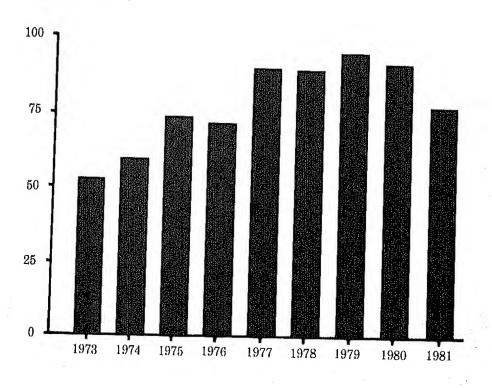
Source table: "Finished Motor Gasoline Supply and Disposition."

Distillate Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Distillate Fuel Oil Supply and Disposition."

Residual Fuel Oil Ending Stocks, Annual (Millions of Barrels)



Source table: "Residual Fuel Oil Supply and Disposition."

Legend

Average Stock Range¹

¹Average stock range based on 3 years of data. See Explanatory Note 2.5.

Source table: "Distillate Fuel Oil Supply and Disposition."

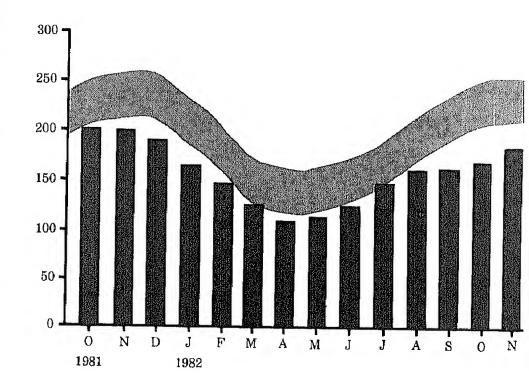
Legend

Average Stock Range¹

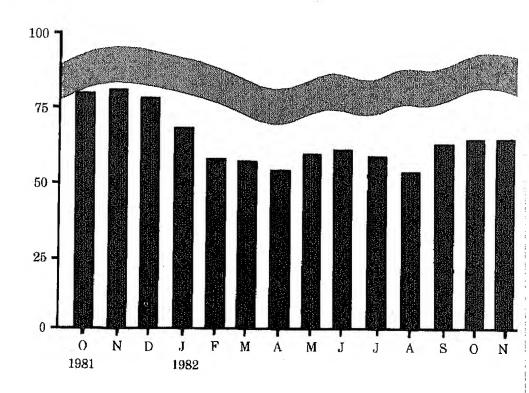
¹Average stock range based on 3 years of data. See Explanatory Note 2.5.

Source table: "Residual Fuel Oil Supply and Disposition."

Distillate Fuel Oil Ending Stocks, Monthly (Millions of Barrels)



Residual Fuel Oil Ending Stocks, Monthly (Millions of Barrels)



Residual Fuel Oil Supply and Disposition

| | | | Sı | ipply | | Disp | Ending Stocks ¹ | |
|--------------|------------|--------------------------|---------------|----------------------------------|---------------------------|---------|-------------------------------|------------------------|
| | | Total Produc- tion | Imports | Stock Withdrawal ² | Crude Used Directly | Exports | Products Supplied | |
| | - | | | Thousand Bar | rels per Day | | | Millions of Barrels |
| 1973 1974 | AVERAGE | 971 | 1,853 | 5 | 17 | 23 | 2,822 | 50 |
| 1974 | AVERAGE | 1,070 | 1,587 | -17 | 13 | 14 | 2,639 | 53 |
| | AVERAGE | 1,235 | 1,223 | 2 | 15 | 15 | | 60 |
| 1976 | AVERAGE | 1,377 | 1,413 | 5 | 17 | 12 | 2,462 | 74 |
| 1977 | AVERAGE | 1,754 | 1,359 | -48 | 13 | 6 | 2,801 | 72 |
| 1978 | AVERAGE | 1,667 | 1,355 | -1 | 13 | 13 | 3,071 | 90 |
| 1979 | AVERAGE | 1,687 | 1,151 | -15 | 12 | 9 | 3,023 | 90 |
| 1980 | AVERAGE | 1,580 | 939 | 10 | 12 | 33 | 2,826 | 96 |
| | | | | | 12 | 33 | 2,508 | 92 |
| 1981 | January | 1,612 | 1,015 | 302 | 32 | 0.5 | | |
| | February | 1,565 | 954 | 150 | 44 | 65 | 2,896 | 82 |
| | March | 1,424 | 699 | 100 | 48 | 125 | 2,588 | 78 |
| | April | 1,320 | 584 | 66 | 49 | 145 | 2,126 | 75 |
| | May | 1,223 | 741 | -170 | | 151 | 1,868 | 73 |
| | June | 1,232 | 540 | 291 | 49 | 25 | 1,817 | 78 |
| | July | 1,174 | 830 | 2 | 49 | 76 | 2,037 | 69 |
| | August | 1,231 | 819 | -179 | 48 | 82 | 1,971 | 69 |
| | September | 1,292 | 841 | | 50 | 69 | 1,852 | 75 |
| | October | 1,238 | 786 | -176 | 51 | 126 | 1,882 | 80 |
| | November | 1,227 | 880 | .8 | 54 | 202 | 1,884 | 80 |
| | December | 1,329 | 916 | -49 | 53 | 203 | 1,909 | 81 |
| | | 1,020 | 910 | 110 | 52 | 157 | 2,250 | 78 |
| | AVERAGE | 1,321 | 800 | 37 | 48 | 118 | 2,088 | |
| 982 | January | 1,183 | 821 | 328 | 53 | 005 | 0.450 | |
| | February | 1,136 | 928 | 358 | 53 53 | 235 | 2,150 | 68 |
| | March | 1,121 | 910 | 26 | 53 53 | 213 | 2,261 | 58 |
| | April | 1,162 | 762 | 124 | 53 52 | 197 | 1,912 | 57 |
| | May | 1,127 | 738 | -175 | | 234 | 1,867 | 54 |
| | June | 1,077 | 643 | -175 -49 | 52 | 191 | 1,551 | 59 |
| | July | 1,029 | 576 | -49 51 | 50 | 217 | 1,504 | 61 |
| | August | 1,007 | 519 | 200 | 49 | 239 | 1,466 | 59 |
| | September | 1,007 | 871 | | 47 | 235 | 1,538 | 53 |
| | October* | R 954 | 67 I R 758 | -302 | 44 | 148 | 1,472 | 62 |
| | November** | 931 | 679 | R -56 | 43 | 234 | R 1,466 | R 64 |
| | | 007 | 0/9 | -57 | NA | NA | 1,399 | 64 |
| | AVERAGE | 1,066 | 744 | 39 | NA | NA | 1,686 | |

¹ Ending Stocks for 1973-1980 are totals as of December 31.
2 A negative number indicates an Increase in stocks and a positive number indicates a decrease. Totals may not equal sum of components due to Independent rounding.

NA = Not available. R = Revised data.

* See Explanatory Note 5.4,

** Italics denote preliminary data. See Explanatory Note 2.7.

Notes: Beginning in January 1981, survey forms were modified.

See Explanatory Note 4 on changes for the effects on residual fuel oil statistics.

Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage.

Geographic Coverage: The 50 United States and the District of Columbia.

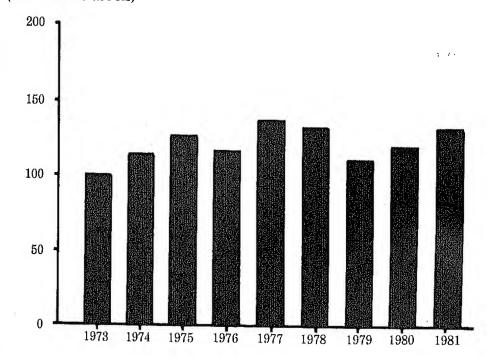
Sources: See "Sources" at the end of this section.

Liquefied Petroleum Gases and Ethane Supply and Disposition

| | | | Supply | | | Disposition | | Ending Stocks ¹ |
|------|-----------|---------------------|---------|----------------------------------|--------------------|-------------|---------------------|-------------------------------|
| | | Total Production | Imports | Stock Withdrawal ² | Refinery Inputs | Exports | Product Supplied | |
| | | | | Thousand Bar | rels per Day | | | Millions of Barrels |
| 1973 | AVERAGE | 1,600 | 132 | -35 | 220 | 27 | 1,449 | 99 |
| 1974 | AVERAGE | 1,565 | 123 | -38 | 220 | 25 | 1,406 | 113 |
| 1975 | AVERAGE | 1,527 | 112 | -35 | 246 | 26 | 1,333 | 125 |
| 1976 | AVERAGE | 1,535 | 130 | 24 | 260 | 25 | 1,404 | 116 |
| 1977 | AVERAGE | 1,566 | 161 | -55 | 233 | 18 | 1,422 | 136 |
| 1978 | AVERAGE | 1,537 | 123 | 12 | 239 | 20 | 1,413 | 132 |
| 1979 | AVERAGE | 1,556 | 217 | 70 | 236 | 15 | 1,592 | |
| 1980 | AVERAGE | 1,535 | 216 | -27 | 233 | 21 | 1,469 | 111 120 |
| 1981 | January | 1,617 | 306 | 363 | 352 | 0.4 | 4.040 | |
| | February | 1,593 | 327 | 173 | 303 | 21 | 1,913 | 117 |
| | March | 1,551 | 260 | -4 | | 21 | 1,769 | 112 |
| | April | 1,586 | 214 | -236 | 257 | 20 | 1,530 | 112 |
| | May | 1,587 | 189 | -258 | 231 | 26 | 1,308 | 119 |
| | June | 1,567 | 206 | -208 | 220 | 19 | 1,279 | 127 |
| | July | 1,507 | 213 | -258 | 237 | 24 | 1,304 | 133 |
| | August | 1,592 | 195 | | 215 | 17 | 1,229 | 141 |
| | September | 1,622 | 199 | -242 | 235 | 149 | 1,160 | 149 |
| | October | 1,593 | | -75 | 287 | 21 | 1,438 | 151 |
| | November | 1,571 | 287 | 72 | 320 | 76 | 1,556 | 149 |
| | December | | 280 | 86 | 383 | 58 | 1,495 | 146 |
| | December | 1,468 | 255 | 379 | 428 | 50 | 1,624 | 135 |
| | AVERAGE | 1,571 | 244 | -18 | 289 | 42 | 1,466 | |
| 1982 | January | 1,546 | 314 | 480 | 398 | 67 | 1,873 | 122 |
| | February | 1,476 | 291 | 310 | 327 | 51 | 1,699 | 114 |
| | March | 1,523 | 223 | 145 | 289 | 74 | 1,528 | 109 |
| | April | 1,566 | 188 | 107 | 257 | 77 | 1,527 | 109 |
| | May | 1,583 | 186 | -61 | 235 | 43 | 1,431 | |
| | June | 1,571 | 192 | -109 | 262 | 106 | 1,286 | 108 |
| | July | 1,556 | 227 | -5 | 253 | 37 | 1,487 | 111 |
| | August | 1,591 | 125 | -44 | 254 | 61 | | 111 |
| | September | 1,606 | 247 | 33 | 273 | 85 | 1,357 | 112 |
| | October* | 1,582 | 194 | 92 | 306 | 85 81 | 1,528 1,481 | 111 109 |
| | AVERAGE | 1,561 | 218 | 94 | 285 | 68 | 1,519 | 100 |

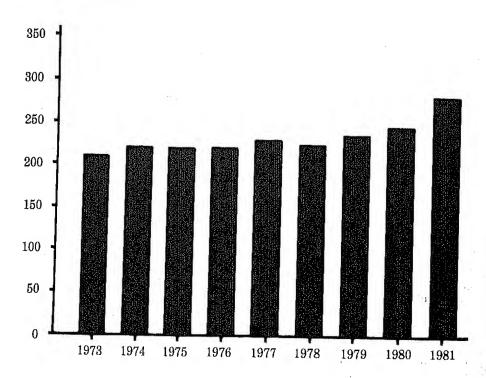
Ending stocks for 1973 - 1980 are totals as of December 31.
 A negative number indicates an increase in stocks and a positive number indicates a decrease. Totals may not equal sum of components due to independent rounding.
 See Explanatory Note 5.5.
 Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Liquefied Petroleum Gases and Ethane Ending Stocks, Annual (Millions of Barrels)



Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Other Petroleum Products¹ Ending Stocks, Annual (Millions of Barrels)



Includes natural gasoline and isopentane, unfinished oils, gasoline blending components, jet fuels, kerosene, lubricants, and asphalt. Some gasoline blending components not included prior to 1981

Source table: "Other Petroleum Products Supply and Disposition."

Legend

Average Stock Range¹

¹Average stock range based on 3 years of data, See Explanatory Note 2.5.

Source table: "Liquefied Petroleum Gases and Ethane Supply and Disposition."

Legend

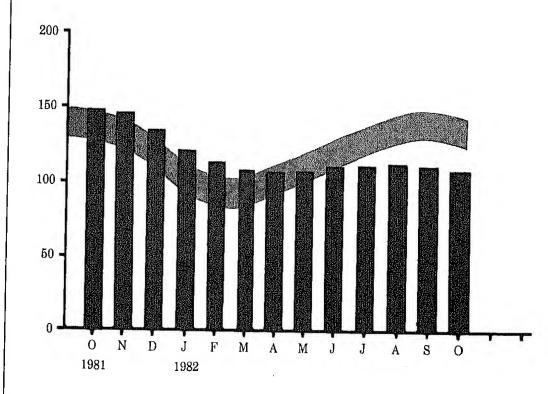
Average Stock Range²

¹Includes natural gasoline and isopentane, unfinished oils, gasoline blending components, jet fuels, kerosene, lubricants, and asphalt.

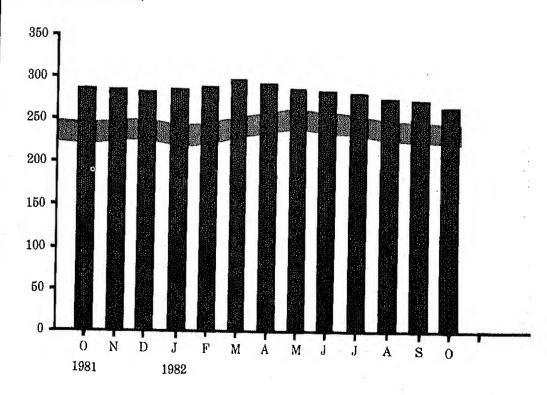
²Average stock range based on 8 years of data. See Explanatory Note 2.5.

Source table: "Other Petroleum Products Supply and Disposition."

Liquefied Petroleum Gases and Ethane Ending Stocks, Monthly (Millions of Barrels)



Other Petroleum Products¹ Endings Stocks, Monthly (Millions of Barrels)



Other Petroleum Products¹ Supply and Disposition

| | | | Supply | | | Disposition | | |
|------|-----------|--------------------------|---------|----------------------------------|--------------------|-------------|----------------------|------------------------|
| | | Total Produc- Tion | Imports | Stock Withdrawaj ³ | Refinery Inputs | Exports | Products Supplied | |
| | | | | Thousand Bar | rrels per Day | | | Millions of Barrels |
| 1973 | AVERAGE | 3,693 | 502 | -9 | 750 | 166 | 3,270 | 208 |
| 1974 | AVERAGE | 3,558 | 432 | -28 | 665 | 174 | 3,123 | 218 |
| 1975 | AVERAGE | 3,424 | 277 | -2 | 537 | 160 | 3,002 | 219 |
| 1976 | AVERAGE | 3,643 | 206 | -5 | 524 | 175 | 3,145 | 220 |
| 1977 | AVERAGE | 3,912 | 205 | -27 | 514 | 165 | 3,410 | 230 |
| 1978 | AVERAGE | 4,046 | 166 | 14 | 492 | 167 | 3,568 | 225 |
| 1979 | AVERAGE | 4,153 | 195 | -37 | 352 | 209 | 3,749 | 238 |
| 1980 | AVERAGE | 3,956 | 210 | -23 | 311 | 198 | 3,634 | 247 |
| 1981 | January | 3,821 | 162 | 80 | 851 | 132 | 3,081 | 296 |
| | February | 3,723 | 182 | -200 | 538 | 208 | 2,958 | 302 |
| | March | 3,722 | 230 | -55 | 642 | 210 | 3,043 | 302 |
| | April | 3,711 | 230 | 24 | 733 | 192 | 3,040 | 303 |
| | May | 3,892 | 229 | -58 | 594 | 238 | 3,231 | 303 |
| | June | 3,925 | 218 | -29 | 656 | 197 | 3,261 | 306 |
| | July | 3,852 | 149 | 284 | 791 | 212 | 3,282 | 297 |
| | August | 3,876 | 276 | -33 | 676 | 219 | 3,225 | 297 298 |
| | September | 3,718 | 285 | 215 | 883 | 176 | 3,159 | 296 291 |
| | October | 3,503 | 241 | 193 | 710 | 227 | | 285 |
| | November | 3,579 | 262 | 33 | 784 | 154 | 3,000 | |
| | December | 3,543 | 243 | 71 | 805 | 223 | 2,935 2,829 | 284 282 |
| | AVERAGE | 3,739 | 226 | 46 | 723 | 199 | 3,088 | |
| 982 | January | 3,181 | 240 | -102 | 602 | 180 | 2,536 | 284 |
| | February | 3,364 | 260 | -116 | 646 | 138 | 2,724 | 287 |
| | March | 3,485 | 241 | -204 | 734 | 161 | 2,627 | 294 |
| | April | 3,394 | 287 | 91 | 801 | 204 | 2,767 | 291 |
| | May | 3,296 | 309 | 198 | 823 | 210 | 2,769 | 285 |
| | June | 3,481 | 315 | 115 | 815 | 216 | 2.879 | 281 |
| | July | 3,578 | 391 | 15 | 862 | 187 | 2,935 | 281 |
| | August | 3,519 | 329 | 256 | 841 | 202 | 3,060 | 273 |
| | September | 3,442 | 365 | 74 | 767 | 213 | 2,901 | 273 |
| | October* | 3,472 | 367 | 223 | 901 | 266 | 2,896 | 264 |
| | AVERAGE | 3,422 | 311 | 56 | 780 | 198 | 2,810 | |

¹ Includes natural gasoline and isopentane, unfractioned stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil.

fuel oil, and residual fuel oil.

2 Ending Stocks for 1973-1980 are totals as of December 31.

3 A negative number indicates an increase in stocks and a positive number indicates a decrease. Totals may not equal sum of components due to independent rounding.

5 See Explanatory Note 5.6.

Note: Annual stock changes for 1975 and 1981 were calculated using expanded survey coverage. Geographic Coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from OPEC Sources

| | Algeria | Libya | Saudi Arabia | United Arab Emirates | Indonesia | Iran | Nigeria | Venezue- la | Other OPEC ¹ | Total OPEC | Total Arab OPEC |
|-------------------------|---------|-------|-----------------|----------------------------|-----------|------------|---------|----------------|----------------------------|----------------|-----------------------|
| | | | | | Thousar | nd Barrels | per Day | | | | |
| 1973 AVERAGE 1974 | 136 | 164 | 486 | 71 | 213 | 223 | 459 | 1,135 | 106 | 2,993 | 918 |
| AVERAGE 1975 | 190 | 4 | 461 | 74 | 300 | 469 | 713 | 979 | 88 | 3,280 | 752 |
| AVERAGE 1976 | 282 | 232 | 715 | 117 | 390 | 280 | 762 | 702 | 122 | 3,601 | 1,388 |
| AVERAGE 1977 | 432 | 453 | 1,230 | 254 | 539 | 298 | 1,025 | 700 | 134 | 5,066 | 2,424 |
| AVERAGE 1978 | 559 | 723 | 1,380 | 335 | 541 | 535 | 1,143 | 690 | 287 | 6,193 | 3,185 |
| AVERAGE 1979 | 649 | 654 | 1,144 | 385 | 573 | 555 | 919 | 645 | 226 | 5,751 | 2,963 |
| AVERAGE 1980 | 636 | 658 | 1,356 | 281 | 420 | 304 | 1,080 | 690 | 212 | 5,637 | 3,056 |
| AVERAGE | 488 | 554 | 1,261 | 172 | 348 | 9 | 857 | 481 | 130 | 4,300 | 2,551 |
| 1981 | | | | | | | | | | | |
| January | 341 | 500 | 1,284 | 93 | 424 | 0 | 908 | 549 | 27 | 4 407 | 0.040 |
| February | 381 | 468 | 1,122 | 93 | 406 | ŏ | 866 | 463 | | 4,127 | 2,219 |
| March | 352 | 485 | 1,027 | 47 | 328 | ő | 771 | | 92 | 3,891 | 2,064 |
| April | 263 | 485 | 1,034 | 68 | 307 | ő | | 360 | 54 | 3,425 | 1,912 |
| May | 393 | 443 | 933 | 17 | | _ | 812 | 237 | 39 | 3,245 | 1,867 |
| June | 356 | 380 | 865 | | 297 | 0 | 664 | 331 | 124 | 3,203 | 1,796 |
| July | 333 | | | 60 | 367 | 0 | 528 | 248 | 118 | 2,922 | 1,703 |
| August | | 251 | 1,073 | 80 | 340 | 0 | 651 | 466 | 38 | 3,233 | 1,757 |
| | 348 | 274 | 1,082 | 61 | 377 | 0 | 321 | 523 | 84 | 3,070 | 1,765 |
| September | 336 | 154 | 1,477 | 96 | 371 | 0 | 323 | 359 | 149 | 3,264 | 2,063 |
| October | 242 | 147 | 1,342 | 90 | 427 | 0 | 412 | 389 | 172 | 3,220 | 1,820 |
| November | 210 | 132 | 1,270 | 112 | 353 | Ō | 517 | 535 | 56 | 3,184 | |
| December | 176 | 122 | 1,045 | 158 | 400 | ŏ | 684 | 411 | 132 | 3,129 | 1,724 1,502 |
| AVERAGE | 311 | 319 | 1,129 | 81 | 366 | 0 | 620 | 406 | 90 | 3,323 | 1,848 |
| 1982 | | | | | | | | | | | |
| January | 254 | 161 | 877 | 87 | 273 | 0 | 666 | 070 | | | |
| ebruary | 139 | 92 | 692 | 79 | | 0 | 662 | 376 | 128 | 2,818 | 1,378 |
| March | 91 | 37 | 555 | | 236 | 0 | 579 | 347 | 102 | 2,267 | 1,044 |
| April | 85 | 0 | 479 | 155 | 200 | 0 | 503 | 399 | 91 | 2,032 | 860 |
| /lay | 179 | | | 122 | 215 | 0 | 427 | 411 | 79 | 1,818 | 707 |
| une | | 0 | 601 | 116 | 236 | 0 | 211 | 414 | 54 | 1,811 | 897 |
| | 93 | 0 | 593 | 94 | 215 | 72 | 537 | 361 | 110 | 2,075 | 799 |
| uly | 122 | 0 | 644 | 123 | 327 | 69 | 910 | 349 | 95 | 2,640 | 927 |
| ugust | 170 | 0 | 489 | 133 | 272 | 27 | 542 | 288 | 134 | 2,057 | 807 |
| eptember | 162 | 0 | 432 | 57 | 191 | 21 | 479 | 514 | 52 | | |
| October | 249 | 7 | 494 | 61 | 227 | 108 | 291 | 496 | 96 | 1,907 2,029 | 659 810 |
| VERAGE | 155 | 29 | 585 | 103 | 240 | 30 | 514 | 396 | 94 | 2,146 | 889 |

Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.
 Includes Algerla, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.
 Totals may not equal sum of components due to independent rounding.
 Note: Beginning in October 1977, Strategic Petroleum Reserve Imports are included.
 Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from Non-OPEC Sources

| | Bahamas | Canada | Mexico | Netherlands Antilles | Trinidad and Tobago | United Kingdom | Puerto Rico ¹ | Virgin Islands ¹ | Other ² | Total |
|-------------------------|--------------------------|--------|--------|-------------------------|---------------------------|-------------------|-----------------------------|--------------------------------|--------------------|-------|
| | Thousand Barrels per Day | | | | | | | | | |
| 1973 AVERAGE | 174 | 1,325 | 16 | 585 | 255 | 15 | 99 | 329 | 465 | 3,263 |
| 1974 AVERAGE | 164 | 1,070 | 8 | 511 | 251 | 8 | 90 | 391 | 340 | 2,832 |
| 1975 AVERAGE | 152 | 846 | 71 | 332 | 242 | 14 | 90 | 406 | 300 | 2,454 |
| 1976 AVERAGE | 118 | 599 | 87 | 275 | 274 | 31 | 88 | 422 | 353 | 2,247 |
| 1977 AVERAGE | 171 | 517 | 179 | 211 | 289 | 126 | 105 | 466 | 550 | 2,614 |
| 1978 Average 1979 | 160 | 467 | 318 | 229 | 253 | 180 | 94 | 429 | 484 | 2,613 |
| AVERAGE 1980 | 147 | 538 | 439 | 231 | 190 | 202 | 92 | 431 | 548 | 2,819 |
| AVERAGE | 78 | 455 | 533 | 225 | 176 | 176 | 88 | 388 | 491 | 2,609 |
| 1981 | | | | | | | | | | |
| lanuary | 39 | 543 | 401 | 198 | 150 | 233 | 89 | 494 | 552 | 2,701 |
| ebruary | 84 | 546 | 437 | 227 | 163 | 271 | 46 | 481 | 626 | 2,881 |
| viarch | 74 | 472 | 488 | 227 | 93 | 263 | 45 | 370 | 571 | 2,603 |
| April | 68 | 412 | 418 | 198 | 139 | 402 | 40 | 365 | 380 | 2,423 |
| /lay | 122 | 365 | 522 | 213 | 105 | 368 | 58 | 344 | 474 | 2,573 |
| lune | 51 | 353 | 538 | 196 | 124 | 397 | 67 | 262 | 525 | 2,513 |
| July | 77 | 382 | 384 | 212 | 178 | 553 | 50 | 206 | 541 | 2,583 |
| August | 69 | 378 | 489 | 255 | 123 | 592 | 68 | 184 | 539 | 2,698 |
| September | 111 | 423 | 708 | 163 | 169 | 528 | 72 | 265 | 661 | 3,100 |
| October | 63 | 449 | 669 | 161 | 121 | 351 | 60 | 303 | 562 | 2,739 |
| Vovember | 63 | 547 | 628 | 168 | 108 | 253 | 76 | 294 | 421 | 2,557 |
| December | 70 | 501 | . 587 | 148 | 125 | 280 | 73 | 367 | 563 | 2,714 |
| AVERAGE | 74 | 447 | 522 | 197 | 133 | 375 | 62 | 327 | 534 | 2,672 |
| 1982 | | | | | | | | | | |
| January | 28 | 509 | 426 | 179 | 106 | 346 | 62 | 334 | 425 | 2,415 |
| February | 50 | 533 | 489 | 221 | 120 | 132 | 38 | 354 | 487 | 2,424 |
| March | 43 | 435 | 503 | 189 | 118 | 293 | 62 | 307 | 479 | 2,429 |
| April | 67 | 357 | 467 | 180 | 166 | 247 | 36 | 266 | 682 | 2,468 |
| May | 76 | 416 | 767 | 152 | 95 | 516 | 47 | 302 | 603 | 2,974 |
| June | 32 | 462 | 797 | 141 | 129 | 539 | 58 | 322 | 673 | 3,153 |
| July | 30 | 527 | 783 | 158 | 111 | 433 | 38 | 369 | 674 | 3,122 |
| August | 68 | 435 | 854 | 145 | 106 | 520 | 24 | 320 | 627 | 3,099 |
| September | 92 | 484 | 897 | 195 | 89 | 631 | 51 | 270 | 744 | 3,453 |
| October | 45 | 456 | 682 | 148 | 109 | 666 | 52 | 262 | 783 | 3,202 |
| AVERAGE | 53 | 461 | 668 | 170 | 115 | 435 | 47 | 310 | 618 | 2,877 |

U.S. Possessions.
 Includes all Non-OPEC countries except those shown above.
 Totals may not equal sum of components due to independent rounding.
 Note: Beginning in October 1977, Strategic Petroleum Reserve Imports are included.
 Geographic coverage: The 50 United States and the District of Columbia.
 Sources: See "Sources" at the end of this section.

Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, "Petroleum Statement, Annual" and PAD Districts Supply/Demand, Annual," Mineral Industry Surveys.
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Monthly Petroleum Statistics Report," (unleaded gasoline category).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, "Petroleum Statement, Annual" and "PAD Districts Supply/Demand, Annual, "Energy Data Reports.
- January 1981 through December 1981: Energy Information Administration, U.S. Department of Energy, "Petroleum Supply Annual."
- January 1982 through October 1982: Detailed statistics in this issue. (See Explanatory Notes 5.1 through 5.6).
- November 1982: Estimates based on EIA weekly data (except domestic crude oil production). See Explanatory Note 2.2).
- January 1982 through November 1982: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 2.7).

Detailed Statistics

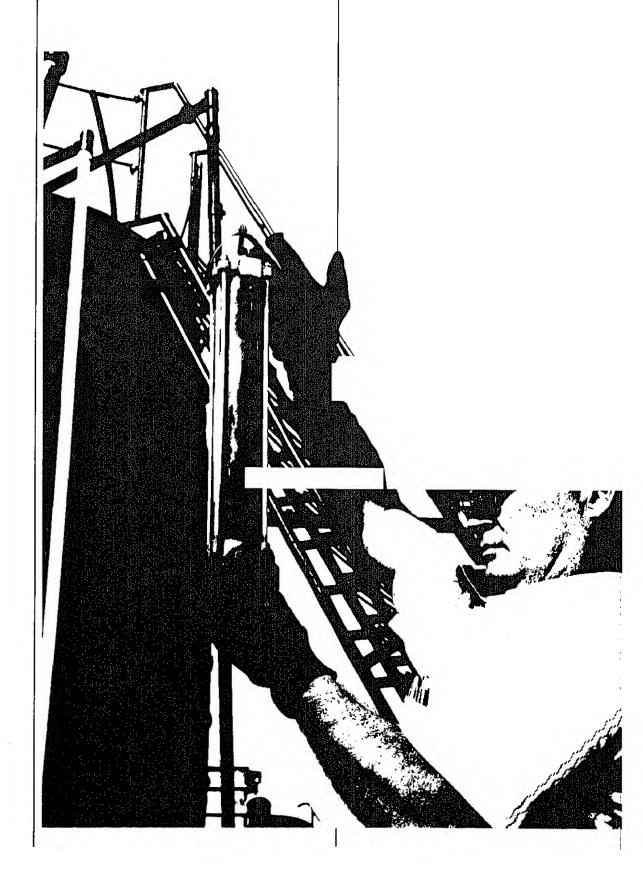




Table 1. U.S. Petroleum Balance, October 1982

| | | Current | Month | Year-I | o-Date |
|---|--|---|--|--|---|
| | | Thousand Barrels | Thousand Barrels per Day | Thousand Barrels | Thousand Barrels per Day |
| Crude Oil (| Including Lease Condensate) | | | | |
| Field Proc | | | | | |
| | *************************************** | £ 51,975 | 1,677 | E 517,220 | 1,701 |
| | 8 States | E 216,981 | 6,999 | E 2,118,582 | 6,969 |
| | S | | 8,676 | E 2,635,802 | 8,670 |
| Net Impor | | | -, | | |
| | (Gross Excluding SPR) | 106,019 | 3,420 | 1,004,592 | 3,305 |
| | orts | 6,702 | 216 | 50,975 | 168 |
| | | 8,384 | 270 | 72,450 | 238 |
| | (Net Including SPR) | 104,338 | 3,366 | 983,117 | 3,234 |
| Other Sou | | | 5,000 | · | -, |
| | hdrawal (+) or Addition (-) | -6,708 | -216 | -54,251 | -178 |
| | ock Withdrawal (+) or Addition (-) | -10,779 | -348 | 12,762 | 42 |
| | lrectly and Losses | -1,628 | -53 | -19,247 | -63 |
| | unted for 1 | 10,058 | 324 | 31,063 | 102 |
| | Other Sources | -9,057 | -292 | - 29,673 | -98 |
| | it to Refineries | 364,237 | 11,750 | 3,589,246 | 11,807 |
| | + (7) + (12) | 00 (120) | 11,100 | 0,000,000 | |
| Natural Gar | s Plant Liquids (NGPL) | | | | |
| 14) Fleid Pro | duction | 47,730 | 1,540 | 467,374 | 1,537 |
| |) | 1,449 | 47 | 6,344 | 21 |
| Stock Wi | thdrawal (+) or Addition (-) 2 | 1,591 | 51 | 4,129 | 14 |
| | GPL Supply | 50,770 | 1,638 | 477,848 | 1,572 |
| Other Liquid | ds | · | | | · · |
| | d Olis and Gasoline Biending Components, Total | | | | |
| (8) Stock V | Vithdrawal (+) or Addition (-) | 4,737 | 153 | 5,615 | 18 |
| | | 6,314 | 204 | 49,541 | 163 |
| | drocarbons and Alcohol New Supply (Field Production) | 2,091 | 67 | 16,086 | 53 |
| | Processing Gain 1 | 16,590 | 535 | 156,970 | 516 |
| | sed Directly | 1,583 | 51 | 18,285 | 60 |
| | ther Liquids | 31,315 | 1,010 | 246,497 | 811 |
| | (18) through (22) | - 7,- 1- | 114.14 | | • |
| 24) Total Prodi | uction of Products 3 | 446,321 | 14,397 | 4,313,590 | 14,189 |
| | | | | | |
| | of Refined Products 3 | | | 445.540 | 4.007 |
| | Gross) | 41,652 | 1,344 | 415,519 | 1,367 |
| | | 20,507 | 662 | 174,825 | 575 |
| 27) Imports | (Net) | 21,146 | 682 | 240,694 | 792 |
| | | | 15.000 | 4.554.005 | 44004 |
| | Supply of Products | 467,467 | 15,080 | 4,554,285 | 14,981 |
| (28) = (24) |) + (27) | | | 04 077 | 200 |
| 29) Refined Pr | oducts Stock Withdrawai (+) or Addition (-) 3 | -8,044 | -259 | 81,657 | 269 |
| 30) Total Petro (30) = (28) | oleum Products Supplied for Domestic Use | 459,423 | 14,820 | 4,635,942 | 15,250 |
| | | | | | |
| | Motor Gasoline | 198,133 | 6,391 | 1,986,470 | 6,534 |
| | Type Jet Fuel | 5,938 | 192 | 62,844 | 207 |
| Ol Varanani | 3-Type Jet Fuel | 23,882 | 770 | 241,372 | 794 |
| | | | 133 | 36,789 | 121 |
| 4) Kerosene | 9 | 4,131 | | | 2,678 |
| 34) Kerosene 35) Distillate | Fuel Oil , | 80,171 | 2,586 | 814,053 | |
| 34) Kerosene 35) Distillate 36) Residual | Fuel OII | 80,171 45,435 | 2,586 1,466 | 520,784 | 1,713 |
| 34) Kerosene 35) Distillate 36) Residual 37) Liquelied | Fuel Oil | 80,171 45,435 45,922 | 2,586 1,466 1,481 | 520,784 459,313 | 1,713 1,511 |
| (4) Kerosene (5) Distillate (6) Residual (7) Liquelied | Fuel OII | 80,171 45,435 | 2,586 1,466 | 520,784 | 1,713 |
| Kerosene Distillate Residual Liquefied Other | Fuel Oil | 80,171 45,435 45,922 | 2,586 1,466 1,481 | 520,784 459,313 | 1,713 1,511 |
| Kerosene 5) Distillate 6) Residual 7) Liquefied 6) Other 9) Total Rec | Fuel OII | 80,171 45,435 45,922 64,220 | 2,586 1,466 1,481 2,072 | 520,784 459,313 614,088 | 1,713 1,511 2,020 |
| (4) Kerosene (5) Distillate (6) Residual (7) Liquefied (8) Other (9) Total Rec | Fuel OII | 80,171 45,435 45,922 64,220 -8,408 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,088 -99,769 | 1,713 1,511 2,020 -928 |
| (40) Kerosene (35) Distillate (36) Residual (37) Liqueffed (38) Other (39) Total Red (40) = (Ending Stor | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks. All Oils | 80,171 45,435 45,922 64,220 -8,408 459,423 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,088 -99,769 4,635,943 | 1,713 1,511 2,020 -928 |
| (4) Kerosene (5) Distillate (6) Residual (7) Liquefied (8) Other (9) Total Rec (40) = (Ending Stoal (1) Grude Oil | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks, All Oils I and Lease Condensate (Excluding SPR) | 80,171 45,435 45,922 64,220 -8,408 459,423 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,098 -99,769 4,635,943 | 1,713 1,511 2,020 -328 15,250 |
| (4) Kerosene (5) Distillate (6) Residual (7) Liquefied (8) Other (9) Total Rec (40) = (Ending Sto- (1) Crude Ol (2) Strategio | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks, All Oils I and Lease Condensate (Excluding SPR) Petroleum Reserve (SPR) | 80,171 45,435 45,932 64,220 -8,408 459,423 350,702 284,592 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,088 -99,769 4,635,943 350,702 284,592 | 1,713 1,511 2,020 -928 |
| (4) Kerosene (5) Distillate (6) Residual (7) Liquefied (8) Other (8) Total Rev (40) = ((40) = ((40) = ((40) Strategio (12) Strategio (13) Unfiniene | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks, All Oils I and Lease Condensate (Excluding SPR) Petroleum Reserve (SPR) | 80,171 45,435 45,922 64,220 -8,408 459,423 350,702 284,592 113,338 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,088 -99,769 4,636,943 350,702 284,592 113,338 | 1,713 1,511 2,020 -328 15,250 |
| 34) Kerosene 35) Distillate 36) Residual 37) Liqueffed 38) Other 39) Total Rev (40) = (Ending Stock 41) Crude Oil 42) Strategio 43) Unfinishe 44) Gasoline | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks, All Oils I and Lease Condensate (Excluding SPR) Petroleum Reserve (SPR) d Olls Blending Components | 80,171 45,435 45,922 64,220 -8,408 459,423 350,702 284,592 113,338 42,826 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,088 -99,769 4,635,943 350,702 284,592 113,338 42,826 | 1,713 1,511 2,020 -928 15,250 |
| 34) Kerosene 35) Distillate 36) Residual 37) Liquefied 38) Other 39) Total Red 40) = (40) = (Ending Stor 41) Grude Oil 42) Strategio 43) Unfinishe 44) Gasoline 44) Gasoline 45) Natural G | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks, All Oils I and Lease Condensate (Excluding SPR) Petroleum Reserve (SPR) d Oils Blending Components Gasoline and Unfractionated Stream | 80,171 45,435 45,922 64,220 -8,408 459,423 350,702 284,592 113,338 42,826 11,390 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,098 -99,769 4,635,943 350,702 284,592 113,338 42,828 11,390 | 1,713 1,511 2,020 -928 15,250 |
| 34) Kerosene 35) Distillate Residual 37) Liquefied 38) Other 39) Total Red 40) Total P (40) = (Ending Storategio 41) Crude Oil 42) Strategio 44) Gasoline 44) Ratural G | Fuel Oil Fuel Oil Petroleum Gases and Ethane classified 1 roduct Supplied (31) through (39) cks, All Oils I and Lease Condensate (Excluding SPR) Petroleum Reserve (SPR) d Olls Blending Components | 80,171 45,435 45,922 64,220 -8,408 459,423 350,702 284,592 113,338 42,826 11,390 630,888 | 2,586 1,466 1,481 2,072 -271 | 520,784 459,313 614,088 -99,769 4,635,943 350,702 284,592 113,338 42,826 | 1,713 1,511 2,020 -328 15,250 |

<sup>A balancing item.
Includes isopentane, natural gasoline, unfractionated stream, and plant condensate only.
For products included see Explanatory Note 5.7.
E = Estimated.
-- Not Applicable.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes 1, 2, and 5.7.</sup>

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, October 1982 (Thousands of Barrels)

| | | ļ | d | | | | | Disposition | | |
|--|--------------------------|---------------------|------------|--|-------------------------------|------------------|--------------------|-------------|----------------------|------------------|
| | | | N. | Aiddne | | 2 | | | | |
| Commodity | Field Produc- tion | Refinery Produc- | Imports | Stock With- drawal (+) or Addi- | Unac- counted For Crude | Used Directly | Refinery Inputs | Exports | Products Supplied | Ending Stocks |
| | | | | tion (-) | 5 | Losses2 | | | | |
| Cride Oil (including leave condensate) | € 268,956 | 0 | 112,721 | -17,487 | 10,058 | -1,628 | 364,237 | 8,384 | 0 | 635,294 |
| | | | | | • | • | 710 01 | 9 526 | 48.916 | 120,013 |
| Natural Gas Plant Liquids and LRGs | 47,397 | 7,993 | 7,473 | 4,455 | 0 | - | 13,0,0 7,7,7 | | 2,977 | 6,374 |
| Natural Gasoline and Jeopentane | 6,067 | 0 | 1,390 | 675 | O, | o ' | 0,10 | • | 1.5 | 3.502 |
| Portractionated Stream | -888 | 0 | 0 | 903 | 0 | 0 | 0.0 | 5 6 | ? - | 1.514 |
| Plant Condensate | 1.168 | 0 | 59 | 12 | 0 | 0 | 1,239 | 2 0 | - 669 37 | 108 623 |
| Linestod Detroloum Gases and Ethans | 41.049 | 7.993 | 6.024 | 2,864 | 0 | 0 | 9,482 | 2,520 | 40,026 | 5,160 |
| Enquelled remoleum dases and Emare | 2012 | 161 | 1,105 | -175 | 0 | 0 | 33 | (s) | 5/5/5 | 20.00 |
| | 0,00 | 7 514 | 2 466 | 2,152 | 0 | 0 | 66 | 1,174 | 24,699 | 00,100 |
| Propare | 3,040 | 1,1 | 2 346 | 1 685 | 0 | 0 | 6,085 | 1,352 | 3,676 | 52,735 |
| Butane | 008,0 | 2 8 | 4,040 | 1,050 | · c | c | 247 | 0 | -445 | 1,359 |
| Butane-Propane Mixtures | 791 | S C | 2 2 | 25 | | 0 | 0 | 0 | 7,907 | 8,352 |
| Ethane-Propane Mixtures | 1,627 | 9 9 | 3 | 507 | o c | 0 | 3.018 | 0 | 112 | 9,331 |
| Isobutane | 3,545 | 211 | > | 170- | • | • | : | | | |
| | | • | , | 4200 | c | c | 21.550 | 0 | -8,408 | 156,164 |
| Other Liquids | 2,091 | - | 5,314 0 | 101,4 | • | • • | 2 109 | 0 | 0 | 191 |
| Other Hydrocarbons and Alcohol | 2,091 | 0 | 0 | 20 5 | > 0 | o c | 15.278 | | -5.868 | 113,338 |
| Unfinished Oils | 0 | 0 | 5,070 | 4,440 | - | 5 (| 0.00 | | - 2566 | 42,258 |
| Motor Gasoline Blending Components | 0 | 0 | 1,244 | 234 | 0 | 5 | 4,044 | > 0 | 900 | 377 |
| Aviation Gasoline Blending Components | 0 | ۵ | 0 | 45 | 0 | 0 | 61 | • | 2 | · |
| | | | | | | | | | 210 045 | 522 265 |
| Finished Petroleum Products | 332 | 410.260 | 35.628 | -10,908 | | 1,583 | • | 17,980 | 416,910 | 100,005 |
| Finished Motor Gasolina | 45 | 193,808 | 5,494 | -762 | 0 | 0 | 0 | 452 | 198,133 | 196,030 |
| Calaboa London Motor Concline | i K | 01 049 | 3 731 | -1308 | 0 | 0 | O | 452 | 93,964 | 44,740 |
| Filteried Leaded Mojor Cascinie | ? c | 401,243 | 1 753 | 550 | 0 | 0 | 0 | 0 | 104,101 | 105,76 |
| Finished Unleaded Motor Gasonne | 9 0 | 101,70 | 3 < | 5 F | · c | 0 | 0 | 0 | 29 | 20 |
| | 2 4 | 100 | ۰ ۳ | | | 0 | ٥ | 0 | 745 | 2,212 |
| THISTIGG AVIAGORI GASOIRIE | 5 | 2 0 | - 2 | 1 6 | | · C | 0 | (s) | 5,938 | 6,390 |
| Naphtha-1ype Jet Fuel | > (| 0,000 | <u> </u> | 7 6 | o c | 0 0 | | 35 | 23,882 | 34,496 |
| Kerosene-Type Jet Fuel | o (| 24,506 | 934 | 521,1- | 9 6 | | o c | - | 4,131 | 10,220 |
| Kerosene | m | 4,007 | 49/ | -3/6 | > (| 2 5 | | 2002 | 80.171 | 170,187 |
| Distillate Fuel Oil | N | 87,950 | 3,014 | -8,993 | o (| 740 | 0 0 | 1000 | 45 435 | 63.574 |
| Residual Fuel Oil | 0 | 29,583 | 23,508 | -1,749 | o (| .,45. | 0 0 | 2,10 | 5 382 | 1.810 |
| Naphtha < 400 Deg. for Petro. Feed, Use | 0 | 4,298 | 759 | 421 | o • | - | 9 0 | 3 6 | 6 745 | 2,206 |
| Other Oils > 400 Deg. for Petro. Feed. Use | 0 | 7,944 | 0 | -326 | 0 | 0 | > (| 2 2 | 0 40 0 | 3 802 |
| Special Naphthas | 4 | 1,601 | 654 | -144 | 0 | 0 | > | ם ה | 2,000 | 10.544 |
| Libricants | 0 | 4,394 | 241 | o | 0 | 0 | 0 | 563 | 200, | 127 |
| Waxes | 0 | 392 | 118 | 17 | 0 | 0 | 0 | 80 1 | 500 | C FO U |
| Petroleum Coke | 0 | 12.260 | 0 | 378 | 0 | 0 | 0 | 6,520 | 6,118 | 0,0 |
| Acade (| | 13.628 | 146 | 1.457 | 0 | 0 | o | <u>ლ</u> | 15,218 | 13,127 |
| Asplidit | 0 0 | 20,0 | 2 | . . | Ċ | 0 | 0 | 0 | 5 | 25 |
| TOBAC CEL | > 0 | 7 00 01 | S | 3 0 | | • = | | 0 | 16,802 | 0 |
| Still Gas | > | 208,91 | 7 | 2 | | | | 8 | 3.551 | 2,865 |
| Miscellaneous Products | 188 | 2,499 | 573 | 315 | 0 | 5 | • | ŝ | | i |
| Total | 318,777 | 418,253 | 162,137 | -19,203 | 10,058 | -45 | 401,663 | 28,890 | 459,423 | 1,433,736 |
| | | | | | | | | | | |
| 1 Theocounted for onde oil is a halancing item | | | | | | | | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition Statistics of Crude Oil and Petroleum Products, January - October 1982 (Thousands of Barrels)

| And the state of t | | | Š | Supply | | | | Disposition | | |
|--|--------------------------|-----------------------------|-----------|--|---|---|--------------------|-------------|----------------------|-----------|
| Commodity | Field Produc- tion | Refinery Produc- tion | Imports | Stock With- drawal (+) or Addi- tion (-) | Unac- counted For Crude Oil1 | Crude Used Directly and Losses2 | Refinery Inputs | Exports | Products Supplied | Ending |
| Crude Oii (including lease condensate) | E 2,635,802 | 0 | 1,055,567 | -41,489 | 31,063 | -19,247 | 3,589,246 | 72,450 | 0 | 635,294 |
| | | | 1 | ! | • | • | | 0,100 | | 200 |
| Natural Gas Plant Liquids and LRGs | 462,834 | 82,880 | 72,548 | 30,15/ | o (| 9 (| 152,919 | 20,142 | 474,000 | 50,013 |
| Natural Gasoline and Isopentane | 61,678 | 0 | 4,836 | 3,019 | 0 | 0 | 54,302 | 0 | 15,231 | 6,3/4 |
| Unfractionated Stream | -782 | 0 | 0 | 1,050 | 0 | 0 | 80 | Φ | 560 | 3,502 |
| Plant Condensate | 10,409 | 0 | 1,509 | 8 | 0 | 0 | 11,924 | 0 | 23 | 1,514 |
| Timefied Petroleum Gases and Ethane | 391,528 | 82,880 | 66,303 | 26,028 | 0 | 0 | 86,685 | 20,742 | 459,313 | 108,623 |
| Ethano | 83 409 | 1.371 | 14.427 | -245 | 0 | 0 | 1,310 | - | 97,650 | 5,160 |
| Dropopo | 140 373 | 76.428 | 18 246 | 13872 | c | 0 | 1,192 | 9.923 | 237,805 | 61,685 |
| Distance | 67,080 | 3 582 | 17 464 | 4 5 19 | · C | • 0 | 49.747 | 10,818 | 32,181 | 22,735 |
| District Department Mishings | 200, 1 | 1356 | 6 904 | 393 | | c | 1.476 | 0 | 8.420 | 1,359 |
| Ethono Droppe Mixtures | 787 ZB | 000 | 9 263 | 8 082 | , c | 0 | 46 | 0 | 83,085 | 8,352 |
| sobutane | 33,636 | 43 | 0 | -593 | 0 | 0 | 32,914 | 0 | 173 | 9,331 |
| Other Lineids | 16.086 | c | 49.541 | 5.615 | 0 | C | 171,011 | 0 | -99,769 | 156,164 |
| Other Highest and Abelea | 16,006 | | | 17 | · C | | 16 103 | c | C | 191 |
| Unferther Agreements and Alcohol | 000'01 | 0 0 | 806 86 | 000 | 0 0 | , c | 100 994 | c | -64 656 | 113.338 |
| Unifilished Oils | > C | o c | 30,320 | 055,1- A70,7 | o c | o c | 54.419 | o c | -35 933 | 42.258 |
| Motor Gasoline Blending Components | | - | 312,11 | 477. | o c | · c | 505 | o C | 819 | 377 |
| Aviation Gasoline Blending Components | | 5 | 5 | 314 | > | 0 | 200 | • | 0 | · |
| Finished Petroleum Products | 4,542 | 3,987,266 | 349,216 | 55,629 | 0 | 18,285 | 0 | 154,083 | 4,260,855 | 522,265 |
| Finished Motor Gasoline | 474 | 1,925,109 | 56,157 | 11,374 | 0 | 0 | Φ | 6,644 | 1,986,470 | 192,095 |
| Finished Leaded Motor Gasoline | 455 | 912,197 | 35,996 | 13,341 | 0 | 0 | 0 | 6,644 | 955,344 | 94,744 |
| Finished Unleaded Motor Gasoline | 200 | 1,011,916 | 20,161 | -1,976 | 0 | 0 | 0 | 0 | 1,030,121 | 97,301 |
| Gasohol | 0 | 966 | 0 | O | 0 | 0 | 0 | 0 | 1,005 | 20 |
| Finished Aviation Gasoline | 607 | 7,166 | 2 | 521 | 0 | 0 | 0 | 0 | 8,296 | 2,212 |
| Naphtha-Type Jet Fuel | | 60,783 | 1,682 | 664 | 0 | 0 | 0 | 285 | 62,844 | 6,390 |
| Kerosene-Type Jet Fuel | 8 | 235,824 | 6,860 | 485 | 0 | 0 | 0 | 829 | 241,372 | 34,496 |
| Kerosene | | 33,223 | 3,022 | 822 | 0 | 0 | 0 | 314 | 36,789 | 022,01 |
| Distillate Fuel Oil | N | 785,223 | 26,226 | 21,354 | 0 | 3,200 | 0 | 21,974 | 814,053 | 140,187 |
| Residual Fuel Oil | | 328,270 | 228,213 | 14,418 | 0 | 15,085 | 0 (| 65,202 | 520,784 | 63,574 |
| Naphtha < 400 Deg. for Petro. Feed. | | 46,059 | 16,185 | 629 | 0 | o (| 0 (| 1,240 | 000,10 | 0.00 |
| Other Oils > 400 Deg. for Petrochem. Feedstock | | 82,051 | 0 | 456 | 0 | 0 | 0 (| 6,046 | 75,549 | 2,206 |
| Special Naphthas | 783 | 15,924 | 5,807 | <u>ភ</u> | 0 | 0 | 0 | 1,686 | 20,991 | 3,802 |
| Lubricants | o | 43,562 | 2,551 | 1,660 | 0 | 0 | 0 | 5,179 | 42,594 | 12,644 |
| Waxes | | 4,240 | 354 | -74 | o | 0 | 0 | 213 | 4,307 | 744 |
| Petroleum Coke | 0 | 123,294 | 0 | -1,340 | 0 | 0 | 0 | 43,800 | 78,154 | 5,842 |
| Asphalt | 0 | 102,351 | 1,479 | 6,460 | 0 | 0 | 0 | 277 | 110,013 | 13,127 |
| Road Oil | 0 | 577 | 8 | 92 | 0 | 0 | 0 | 0 | 553 | 52 |
| Shill Gas | 0 | 169,586 | 0 | 0 | 0 | 0 | 0 | 0 | 169,586 | 0 |
| Miscellaneous Products | 2,617 | 24,024 | 929 | -85 | 0 | 0 | ۵ | 388 | 26,844 | 2,865 |
| | 3 119 264 | 4 070 146 | 1.526.972 | 49.912 | 31.063 | -962 | 3,913,176 | 247,275 | 4,635,943 | 1,433,736 |
| 10(d) | | 4,444 | | ! | 1 | | | | | |
| | | | | | | | | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

able 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, October 1982 (Thousand Barrels per Day)

| | | | | -1- | | | | Disposition | |
|--|------------|-----------------|---------------|--------------------|-----------|-------------|------------|-------------|----------|
| 1 | | | Alddris | | | | | | |
| | | | | Stock | I lac. | Crude | | | |
| - Aller of the second | Field | Refinery | | With | counted | used .: | Refinery | to | Products |
| Commodity | Produc- | Produc- tion | Imports | drawai(+) Addi- | For Crude | Directly | Inputs | capodis | Supplied |
| | | | | tion(-) | 5 | Losses2 | | | |
| | | | | | • | i | 44 | 020 | c |
| Crude Oil (including lease condensate) | E 8,676 | 0 | 3,636 | -564 | 324 | 55- | 06/11 | 017 | , |
| Network Cas Disast Franks and 1966 | 1.529 | 258 | 241 | 144 | 0 | 0 | 512 | 81 | 1,578 |
| Motival Constitution and Innocessing | 401 | 3 | 45 | 22 | 0 | 0 | 166 | 0 | 96 |
| Natural casoline and isopeniane | 8 6 | 9 6 | ? < | 1 8 | | · C | 0 | 0 | (s) |
| Unfractionated Stream | R 8 | 0 | 5 6 | 3 | 0 0 | • | φ. | Ç | (S) |
| Plant Condensate | 88 | 0 | 7 7 | ક ક | > 0 | 0 0 | 96 | , <u>c</u> | 1.481 |
| Liquefied Petroleum Gases and Ethane | 1,324 | 258 | 194 | 35 | - | 0 | 25. | @ | 322 |
| Ethane | 288 | ທ | 98 | φ | 9 (| - (| → (| 38 | 767 |
| Propane | 446 | 242 | 8 | 69 |) | - (| 3 4 | 2 4 | 110 |
| Butane | 225 | ₹ | 9/ | Ž, | 0 | ~ | 961 | ‡ ° | - |
| Butane-Propane Mixtures | 2 | ო | 0 | -15 | 0 | 0 | xo · | 0 | r u |
| Ethane-Propane Mixtures | 246 | 0 | ო | 9 | 0 | 0 | 0 ! | 5 (| 3 |
| Isobutane | 114 | 4 | 0 | -17 | 0 | 0 | 26 | 5 | 4 |
| | ţ | • | **** | 5 | c | • | 595 | 0 | -271 |
| Other Liquids | /9 | > (| 507 | 201 | • | • • | 88 | C | 0 |
| Other Hydrocarbons and Alcohol | , | > • | <u> </u> | - ; | > 0 | 0 0 | 8 9 | · c | -189 |
| Unfinished Oils | 0 | 0 | \$ | 143 | 5 (| > 0 | 00.4 | o c | , K |
| Motor Gasoline Blending Components | 0 | 0 | \$ | 80 | 0 | > | 30 | • | } - |
| Aviation Gasoline Blending Components | 0 | 0 | 0 | - | 0 | 0 | _ | > | - |
| | | | | | | i | • | 000 | 40 540 |
| Finished Petroleum Products | = | 13,234 | 1,149 | -352 | P | 5 | 0 | ດອດ | 5,013 |
| Finished Motor Gasoline | _ | 6,252 | 171 | -25 | 0 | 0 | 0 | Ω ! | 0.09 |
| Finished Leaded Motor Gasoline | - | 2,966 | 120 | 42 | 0 | 0 | 0 | 35 | 3,031 |
| Finished Unleaded Motor Gasoline | ٥ | 3,283 | 22 | 8 | 0 | 0 | 0 | 0 | 3,358 |
| Gasohol | 0 | ო | 0 | 9 | 0 | 0 | 0 | 0 | ? ? |
| Finished Aviation Gasoline | 7 | ន | <u>(s)</u> | (s) | 0 | 0 | 0 | 0 | 54 |
| | 0 | 190 | က | ۳ | 0 | 0 | 0 | (s) | 192 |
| Kerosene-Twoe Jet Fuel | 0 | 791 | 17 | 98- | 0 | 0 | 0 | - | 770 |
| Kerosene | | 129 | 16 | -12 | 0 | 0 | 0 | (s) | 133 |
| Ö | <u>.</u> | 2.837 | 97 | -290 | 0 | 89 | 0 | 99 | 2,586 |
| Residual Fuel Oil | 0 | 954 | 758 | -56 | 0 | 43 | 0 | 234 | 1,466 |
| Naphtha < 400 Deg. for Petro. Feed. Use | 0 | 139 | 24 | 14 | 0 | 0 | 0 | ო | 174 |
| Other Oils > 400 Deg. for Petro. Feed, Use | 0 | 256 | 0 | = | 0 | 0 | 0 | 58 | 218 |
| Special Naphthas | ,- | 52 | 21 | 4 | 0 | 0 | 0 | ო | 99 |
| Lubricants | 0 | 142 | 80 | (8) | 0 | 0 | 0 | 18 | 132 |
| Waxes | 0 | 13 | 4 | | 0 | 0 | 0 | Ψ- | 16 |
| Potroleum Coke | · C | 395 | c | 12 | 0 | 0 | 0 | 210 | 197 |
| Ashbalt | | 440 | ı ur | 47 | | | 0 | જ | 491 |
| Dood Oil | • | e e | · c | 9 | · c | · c | c | | (s) |
| CAS Cas | o c | 542 | • • | Ē | • | 0 | 0 | 0 | 545 |
| Miscellaneous Products | φ | 81 | . 85 | 10 | 0 | 0 | 0 | - | 115 |
| | | | | | | | | | |
| Total | 10,283 | 13,492 | 5,230 | -619 | 324 | 7 | 12,957 | 932 | 14,820 |
| | | | | | | | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.

(s) Less than 500 barrels per day.
 E = Estimated.

Note: Total may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - October 1982 (Thousand Barrels per Day)

| | | | Supply | 20 | | | | Disposition | |
|--|------------|------------|---------|------------------|---------------|----------------|----------|--------------|------------|
| | | | dans. | Stock | | Crude | | | |
| | 200 | Dofinger | | With- | Unac | Clsed | | | Depolerate |
| Commodity | Produc- | Produc- | Imports | drawal(+) | counted | Directly | Helinery | Exports | Supplied |
| | tion | tion | | Addi- tion(-) | TEO O | and Losses2 | and: | | |
| Crude Oil (including lease condensate) | E 8,670 | 0 | 3,472 | -136 | 102 | -63 | 11,807 | 238 | 0 |
| | 4 | 070 | 230 | 8 | c | C | 503 | 89 | 1,562 |
| Natural Gas Plant Liquids and LRGs | 770, | 577 | . T | \$ = | · C | 0 | 179 | 0 | 22 |
| Natural Gasoline and Isopentane | SQ2 | 5 6 | 2 0 | 2 6 | · c | | (8) | 0 | - |
| Unfractionated Stream | ? ; | 5 (| יכ | 3 | 0 0 | o c | 5 | | (s) |
| Plant Condensate | 8 | 0 | a i | <u>@</u> | > 0 | 0 0 | 5 0 | 9 | 1 511 |
| Liquefied Petroleum Gases and Ethane | 1,288 | 273 | 218 | 8 | > (| > 0 | 607 | 8 | 100 |
| Ethane | 274 | ĸ | 47 | 7 |) | > (| 1, | | 707 |
| Dronane | 462 | 251 | 6 | 46 | 0 | 0 | 4 | 3 | 707 |
| | 221 | 12 | 57 | 15 | 0 | 0 | 42 | န္တ | 2 |
| | 4 | 4 | 83 | _ | 0 | 0 | 'n | 0 | 8 |
| | 216 | C | 30 | 27 | 0 | 0 | (s) | 0 | 273 |
| Engine-riopane mixilities | 113 | · (s) | 0 | 7 | 0 | 0 | 108 | 0 | - |
| יייייייייייייייייייייייייייייייייייייי | | | | | | | | (| 000 |
| Other Liniide | 53 | 0 | 163 | 3 8 | 0 | Φ, | 563 | D (| -328 |
| Other Lightnesshops and Alcohol | 53 | 0 | 0 | (s) | 0 | 0 | 23 | 5 | 0 ; |
| Infinited Oils | C | 0 | 126 | -2 | 0 | 0 | 332 | 0 | 513- |
| Visit Annual Control C | c | C | 37 | 24 | 0 | 0 | 179 | 0 | -118 |
| Motor Gasonie Dieding Components | 0 0 | 0 | 0 | - | 0 | o | 7 | 0 | ო |
| Aviation casoline diending colliponells | • | • |) | | | | | | |
| | 4 | 13.116 | 1.149 | 183 | 0 | 9 | 0 | 202 | 14,016 |
| Finished Performent Products | i c | 6333 | 185 | 37 | 0 | 0 | 0 | 22 | 6,534 |
| Finished Motor Gasoline | 1 ← | 3001 | 118 | 4 | 0 | 0 | 0 | 22 | 3,143 |
| Finished Leaded Motor Gasoline | . (8) | 3329 | 99 | | 0 | 0 | 0 | 0 | 3,389 |
| Finished Unleaded Motor Gasoline | 5 | 3 | 0 | (s) | 0 | 0 | 0 | 0 | က |
| | 0 | 24 | (S) | ۶۵ : | 0 | 0 | 0 | ٥ | 27 |
| Finished Aviation Gasoffile | 10 | 200 | 9 | N | Q | 0 | 0 | - | 207 |
| Napinia-Type Jet Fuel | | 776 | 23 | 7 | 0 | 0 | 0 | ന | 794 |
| 7 | (s) | 109 | 9 | ო | 0 | 0 | 0 | - | 121 |
| Diskilate Good Oil | (S) | 2583 | 86 | 22 | 0 | 11 | 0 | 72 | 2,678 |
| | | 1,080 | 751 | 47 | 0 | 20 | 0 | 214 | 1,713 |
| Alaskin / And Don for Dato Food 1 to | 0 | 152 | 23 | N | 0 | 0 | 0 | 4 | 203 |
| Other Old V 400 Des for Data Food Hea | 0 | 270 | 0 | ٦ | 0 | 0 | 0 | 50 | 249 |
| Order Oils > 400 Deg. 101 Feat. Ose | C | 52 | 19 | - | 0 | 0 | 0 | (0) | 69 , |
| Special Naphukas | . 0 | 143 | 80 | ı, | 0 | 0 | 0 | 17 | 140 |
| | · c | 14 | • | (S) | 0 | 0 | 0 | - | 4 |
| Waxes | , C | 406 | c | ; | 0 | 0 | 0 | 144 | 257 |
| Petroleum Coke | 0 0 | 337 | יו נ | 2 | 0 | 0 | 0 | - | 362 |
| Asphalt | 0 | 3 | 9 | (8) | 0 | 0 | 0 | 0 | 8 |
| Road Oil | 9 0 | 7 2 2 | 2 |) | 0 | 0 | 0 | 0 | 558 |
| Still Gas | o 0 | 3 5 | , , | ٤ | · C | 0 | 0 | - | 88 |
| Miscellaneous Products | מ | 2 | Ŋ | Ξ | • | • | | | |
| | 10,261 | 13,389 | 5,023 | 164 | 102 | ۳ | 12,872 | 813 | 15,250 |
| | | | | | | | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 I less than 500 barrels per day.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, October 1982 (Thousands of Barrels)

| | | | | Supply | | | | | Disposition | | |
|--|--------------------------|-----------------------------|----------|--|-------------------------------|---|-----------------|------------|-------------|----------------------|------------------------------|
| Commodity | Field Produc- tion | Refinery Produc- tion | Imports | Stock With- drawal (+) or Addi- tion (-) | Unac- counted For Crude | Crude Used Directly and Losses ² | Net Receipts | Refinery | Exports | Products Supplied | Ending Stocks |
| Crude Oil (including lease condensate) | € 2,686 | 0 | 28,582 | -254 | -256 | ų. | 3,676 | 34,429 | 0 | 0 | 18,327 |
| | | | | | | | | ! | | 000 | 367 3 |
| Natural Gas Plant Liquids and LRGs | 926 | 1,177 | 320 | -299 | 0 | 0 | 2,521 | 192 | e i | 20,000 | 0,420 |
| Liquefied Petroleum Gases | 460 | 1.177 | 319 | -294 | 0 | 0 | 2,521 | 171 | | 3,957 | מאָמָיה |
| Ethane | 321 | C | 0 | 0 | 0 | 0 | 0 | ٥ | (s) | 321 | 0 |
| Other Products3 | 144 | 0 | - | 4 | 0 | 0 | 0 | 21 | 0 | 120 | 28 |
| Other Liquids | 195 | 0 | 2.786 | 2.323 | 0 | 0 | 1,254 | 5,852 | ٥ | 706 | 19,601 |
| Other Hydrocerbone and Alcohol | 105 | · c | | 4 | c | c | | 190 | 0 | 0 | 19 |
| Hofinished Oils | 3 | • • | 2000 | 0 0 0 | · c | • • | 1 254 | 4 940 | 0 | 389 | 15,017 |
| Motor Gasoline Blanding Companents | o c | o c | 759 | 283 | o c | o C | 0 | 726 | 0 | 316 | 4,561 |
| Aviation Gasoline Standing Components | | 0 | 3 | 3 4 | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| S. S | • | | • | | • | | | 4 | 1 | 000 | 404 407 |
| Finished Petroleum Products | 45 | 40,927 | 27,836 | -11,634 | 0 | 0 | 78,435 | 0 | 817 | 134,/92 | 757.15 |
| Finished Motor Gasoline | 45 | 18,614 | 4,103 | -341 | 0 | 0 | 44,106 | 0 | C/I | 66,525 | 58,965 |
| Finished Leaded Motor Gasoline | 45 | 7 400 | 2,696 | -77 | 0 | C | 18.782 | 0 | 2 | 28,844 | 27,577 |
| Finished Unleaded Motor Gasoline | 2 | 11 214 | 1 408 | 272 | | | 25.324 | 0 | 0 | 37,674 | 31,386 |
| Gasobol | | | | i œ | · c | c | 0 | 0 | 0 | 60 | 8 |
| Finished Aviation Gasoline | o c | o u | - | g | | · c | 161 | c | 0 | 237 | 326 |
| Moobsto Time to End | o c | ָ ֖֭֭֓֞֝֞֝֞ | - 8 | 3 8 | o c | | 250 | · C | (s) | 853 | 527 |
| Napriusa-1ype det ruei | > ' | 421 | <u> </u> | 47- | > (| • | 1 00 | S (| 0 | 000 | 0 534 |
| Kerosene-Iype Jet Fuel | 0 | 773 | 534 | -497 | 0 | 0 | 1,794 | 0 (| 5 | 400,0 | 4000 |
| Kerosene | 0 | 476 | 497 | -159 | 0 | 0 | 694 | 0 | (s) | 2001 | ייני ייני ייני ייני |
| Distillate Fuel Oil | 0 | 9,805 | 2,324 | -7,778 | 0 | 0 | 20,254 | 0 | - | 24,604 | 97/6/ |
| Residual Fuel Oil | 0 | 3,075 | 19,009 | -3,789 | 0 | 0 | 3,087 | 0 | (s) | 21,382 | 32,774 |
| Naphtha and Other Oils for Petrochem. | | | | | | | | | | i | 9 |
| Feedstock | 0 | 464 | 281 | 83 | 0 | 0 | 10 | 0 | 29 | 786 | 201 |
| Special Naphthas | 0 | -10 | 405 | -117 | 0 | 0 | 286 | 0 | m | 561 | 050,1 |
| Lubricants | 0 | 709 | 177 | 249 | 0 | 0 | 804 | 0 | 226 | 1,713 | 3,097 |
| Waxes | c | 103 | 23 | -17 | 0 | 0 | 19 | 0 | 7 | 171 | 177 |
| | o | 1.038 | 0 | 347 | 0 | 0 | 0 | 0 | 200 | 885 | 926 |
| | · C | 3.252 | 132 | 066 | | C | 343 | 0 | œ | 4,009 | 3,427 |
| Boad Oil | | | | - | | | C | Ċ | 0 | 0 | 0 |
| Still Gas | · c | 1 775 | o c | | · c | · C | · C | · C | 0 | 1.775 | 0 |
| Miscellaneous Products | o c | 420 | 2,5 | 44.0 | · c | · C | 518 | 0 | 12 | 1.180 | 411 |
| | • | ğ | 2 | F | • |) | | • | ! | | |
| Total | 3,851 | 42,104 | 59,524 | -9,864 | -256 | ιγ | 85,886 | 40,473 | 872 | 139,895 | 234,851 |
| | | | | | | | | | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II Supply and Disposition of Crude Oil and Petroleum Products, October 1982 (Thousands of Barrels)

| | | | | Supply | | | | | Disposition | | |
|--|--------------------------|-----------------------------|---------|--|---------------------------------------|---|-----------------|---------------|-------------|----------------------|------------------|
| Commodity | Field Produc- tion | Refinery Produc- tion | imports | Stock With- drawal (+) or Addi- tion (-) | Unac- counted For Crude Oil1 | Crude Used Directly and Losses ² | Net Receipts | Refinery | Exports | Products Supplied | Ending Stocks |
| Crude Oil (including lease condensate) | E 31,437 | 0 | 16,406 | 228 | 34,431 | -12 | 1,252 | 81,237 | 2,505 | O | 74,161 |
| Natural Gas Plant jourds and 8Gs | 8.923 | 2,110 | 3,988 | 1,595 | ٥ | 0 | 5,581 | 4,714 | 1,414 | 16,069 | 32,301 |
| Liquefied Petroleum Gases | 6,830 | 2,080 | 2,883 | 1,915 | 0 (| 0 6 | 4,712 | 3,164 | 1,414 | 13,841 | 27,937 |
| Ethane | 2,030 | စ္က ဝ | 1,105 | -18 -302 | 00 | 00 | 869 | 1,550 | 0 | -920 | 3,037 |
| | 326 | c | 503 | 1 420 | o | 0 | 774 | 3,984 | 0 | -959 | 29,114 |
| Other Liquids | 220 | o c | 3 | 7. | c | 0 | 0 | 382 | 0 | 0 | 20 |
| Other Hydrocarbons and Alconol | 350 | . | 225 | 243 | 0 | 0 | 47 | 1,309 | 0 | -794 | 20,318 |
| Vista Castles Disades Composition | | · c | 172 | 1.058 | 0 | 0 | 727 | 2,228 | 0 | -166 | 8,604 |
| Aviation Gasoline Blending Components | | 0 | i | 65 | 0 | 0 | 0 | 65 | 0 | 0 | 142 |
| | 7 | 91 579 | 565 | 5.241 | 0 | 0 | 19,075 | 0 | 360 | 116,108 | 128,565 |
| Finished Petroleum Products | • | 50,57 | 3 6 | 1 452 | 0 | 0 | 13,922 | 0 | 48 | 65,530 | 58,403 |
| Finished Motor Gasoline | | 20,20 | o - | 44 | · c | 0 | 7.227 | 0 | 48 | 33,368 | 30,353 |
| Finished Leaded Motor Gasoline | | 20,502 | - 0 | 1.521 | 0 | 0 | 6.695 | O | 0 | 32,153 | 28,007 |
| Finished Unleaded Motor Casoline | | 34 | 2 0 | -25 | 0 | 0 | 0 | 0 | 0 | O) | 43 |
| Chickod Authlian Casalina | | 106 | 0 | | 0 | 0 | 139 | 0 | 0 | 257 | 202 |
| Nanhtha-Tyne Jet Flief | | 958 | 0 | -25 | 0 | 0 | 86 | 0 | 0 | 1,031 | 1,295 |
| Kerosena Type Jet Filel | | 3,774 | 0 | 758 | 0 | 0 | 891 | 0 | 0 | 5,423 | 7,072 |
| Korosopo | | 460 | 0 | -73 | 0 | 0 | 225 | 0 | Φ. | 612 | 2,955 |
| Distillate Fuel Oil | | 20,777 | 0 | 1,265 | o | 0 | 3,925 | 0 | Φ (| 25,968 | 44,256 |
| Residual Fuel Oil | | 2,134 | 316 | 711 | 0 | 0 | -721 | 0 (| > 8 | 2,440 | 4,00 |
| Naphtha and Other Oils for Petro. Feed | 0 | 1,544 | 82 | 4 5 | 0 (| 0 (| 27 | > C | ⊋ • | 1,080 | 523 |
| Special Naphthas | | 446 | 80 | φ | > 0 | > 0 | 924 | 0 | - 1- | 130 | 1 843 |
| Lubricants | | 808 | . S | 801 | > (| 5 0 | 0 | 0 0 | <u> </u> | | <u> </u> |
| Waxes | | 83 | 41 | 0 1 | 0 0 | 0 | n c | o c | 282 | 2 508 | 1 788 |
| Petroleum Coke | | 2,890 | 0 ; | 611- | > (| 5 C | 0 0 | 0 0 | 3 - | 5,457 | 4 231 |
| Asphalt | | 3,977 | 14 | 1,192 | 5 (| - | 6/2 | 0 0 | - c |), , , | 2 |
| Road Oil | ۰ : | 9 | ο (| ភ | 0 | > 0 | 0 | o c | o c | 3 292 | 30 |
| Still Gas | | 3,292 | 0 | 0 | ~ (| > (| - 6 | > 0 | 9 | 262,0 | 5 5 |
| 9 | . 14 | 178 | 0 | 34 | 0 | 5 | 8 | - | <u>e</u> | † 00 | 531 |
| Total | 40,704 | 93,682 | 21,462 | 8,484 | 34,431 | -12 | 26,682 | 89,935 | 4,279 | 131,218 | 264,141 |
| | | | | | | | | ļ | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III Supply and Disposition of Crude Oil and Petroleum Products, October 1982 (Thousands of Barrels)

| | | | | Aidding | | | | | Disposition | | |
|---|--------------------------|-----------------------------|---------------|--|---------------------------------------|---|-----------------|----------|-------------|----------------------|------------------|
| Commodity | Field Produc- tion | Refinery Produc- tion | Imports | Stock With- drawal (+) or Addi- tion (-) | Unac- counted For Crude Oil1 | Crude Used Directly and Losses2 | Net Receipts | Refinery | Exports | Products Supplied | Ending Stocks |
| Crude Oil (including lease condensate) | E 130,538 | 0 | 59,825 | -11,991 | -19,522 | 4 | 16.495 | 175 341 | 6 | | 107 201 |
| Natural Gas Plant Liquids and LRGs | | 3,418 | 2,191 | 3.578 | | | 7557 | | 9 1 | | 445,131 |
| Ethane | 23,305 | 3,297 | 802 | 1,822 | 0 | 0 | -7,182 | 3,467 | υ υπ- | 25,383 | 78,899 |
| ts3 | | 121 | 0 8 | -157 | 0 | 0 | | 33. | C16 (s) | 6.488 | 3,833 |
| | | 0 | 1,389 | 1,913 | ٥ | 0 | -473 | 4,433 | 0 | 2,769 | 7,988 |
| Other Hydrocarbons and Alaskal | 644 | 0 | 2,999 | -15 | 0 | 0 | -1672 | 10 464 | • | 0 | 000 |
| Unfinished Oils | 944 | 0 | 0 | -31 | 0 | 0 | | 613 | o c | 9000 | 996,99 |
| Motor Gasoline Blending Components | 5 C | 0 (| 2,818 | 468 | 0 | 0 | -945 | 7,756 | 0 | -5.415 | 49.590 |
| Aviation Gasoline Blending Components | - | - (| 181 | 455 | 0 | 0 | -727 | 2,118 | 0 | -3119 | 19,056 |
| | > | 5 | 0 | ო | 0 | 0 | 0 | -23 | ۵ ه | 26 | 193 |
| Finished Petroleum Products | 256 | 190 277 | 4 700 | - | • | | | | | ì | 2 |
| Finished Motor Gasoline | 3 | 20,561 | 4,732 | -7,299 | 0 | 2 | -101,084 | 0 | 10,559 | 85,328 | 138.738 |
| Finished Leaded Motor Gasoline | 0 0 | 09,001 | <u> </u> | -1,904 | 0 | 0 | -60,078 | 0 | 396 | 27.283 | 50 734 |
| Finished Unleaded Motor Gasoline | 9 6 | 40,074 | © (| -1,034 | 0 | 0 | -27,152 | 0 | 396 | 12 292 | 24 683 |
| Gasohol | > c | 46,785 | 0 1 | -870 | 0 | 0 | -32,926 | 0 | 0 | 14 990 | 28.051 |
| Finished Aviation Gasoline |) r | - 60, | 5 (| 0 ; | 0 | 0 | 0 | 0 | 0 | | 0 |
| Naphtha-Type Jet Fuel | 5 - | 104 | 5 6 | 7 | 0 | ٥ | -354 | 0 | 0 | 62 | 697 |
| Kerosene-Type Jet Fuel | o c | 7,030 | - | -118 | 0 | 0 | -533 | 0 | 0 | 2.047 | 3 034 |
| Kerosene | o (| 7.000 | 5 (| -2,282 | 0 | 0 | -9,501 | 0 | 0 | 1,534 | 11 836 |
| Distillate Fuel Oil | · • | 2000 | ָ ֖֖֖֓֞ | -169 | 0 | 0 | -919 | 0 | (s) | 1,800 | 2.574 |
| Residual Fuel Oil | - c | 14.655 | 700 | -2,914 | 0 (| S. | -24,394 | 0 | 851 | 16,099 | 37,018 |
| Naphtha and Other Oils for Petro, Feed. | 0 | 9.487 | 204,0 | ဂ္ဂ ၀ | 0 0 | 0 (| -2,739 | 0 | 4,984 | 11,030 | 15,583 |
| Special Naphthas | 4 | 1.044 | 151 | 7 6 | 5 6 | 0 0 | -37 | 0 | 875 | 9,217 | 2,922 |
| Lubricants | 0 | 2.542 | (3) | 163 | - | 0 | -375 | 0 | 8 | 820 | 1,835 |
| Waxes | 0 | 194 | 36 | 3 " | > (| o (| 0/6- | 0 | 270 | 1,139 | 6,147 |
| Petroleum Coke | | 4 868 | 9 < | ם פ | > (| Ó | -10 | 0 | œ | 218 | 444 |
| Asphalt | · c | 9,000 | > < | ر د د | 0 (| 0 | 0 | 0 | 3,078 | 1,826 | 802 |
| Road Oil | 0 0 | 0000 | > c | 425 | 0 | 0 | 618 | ٥ | 64 | 2,505 | 3.085 |
| Still Gas | 0 0 | 7 0.05 | 0 0 | 0 (| 0 | 0 | 0 | 0 | 0 | 0 | ~ |
| Miscellaneous Products | , and | 4 725 | 2 6 | 0 ! | 0 | 0 | 0 | 0 | 0 | 7.935 | ı c |
| | 2 | 057.1 | 200 | 113 | 0 | 0 | -556 | 0 | 9 | 1,810 | 2,025 |
| Total | 165,672 | 202,695 | 69,747 | -15.727 | -19.522 | - | 20204 | 405 930 | ; | | |
| 1 Ilmandaminated for a state of the | | | | | | • | 210,00 | 7/2,061 | 11,474 | 102,204 | 729,334 |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV Supply and Disposition of Crude Oil and Petroleum Products, October 1982 (Thousands of Barrels)

| | | | | Supply | | | | | Disposition | | |
|---|--------------------------|-----------------------------|------------|--|---------------------------------------|---|-----------------|--------------------|-------------|----------------------|------------------|
| Commodity | Field Produc- tion | Refinery Produc- tion | Imports | Stock With- drawal (+) or Addi- tion (-) | Unac- counted For Crude Oil1 | Crude Used Directly and Losses ² | Net Receipts | Refinery Inputs | Exports | Products Supplied | Ending Stocks |
| Crude Oil (including lease condensate) | E 17,891 | 0 | 1,629 | -124 | -6,152 | 89 | 0 | 13,236 | 0 | 0 | 11,793 |
| Natural Gas Plant Liquids and LRGs | 2,243 | 72 | 528 | -72 | 0 | 0 | -447 | 559 | 0 | 1,765 | 1,263 |
| Liquefied Petroleum Gases | 86 | 22.0 | 468 | မှ မ | 00 | 0 0 | -51 | 403 0 | 00 | 9 9 9 | 986 (s) |
| Ethane | 1,347 | 00 | 96 | £ . | 0 | 0 | -396 | 156 | 0 | 843 | 277 |
| Others I journal | 69 | 0 | 0 | 154 | 0 | 0 | 0 | -38 | 0 | 261 | 4,496 |
| Other Hydrocarbons and Alcohol | 69 | 0 | 0 | o | 0 | 0 | 0 | 69 | 0 | 0 | 0 |
| Unfinished Oils | 0 | 0 | 0 | 171 | 0 | 0 | 0 | -253 | 0 | 454 | 2,848 |
| Motor Gasoline Blending Components | 0 | 0 | 0 | -17 | 0 | 0 | 0 | 146 | 0 | -163 | 1,648 |
| Aviation Gasoline Blending Components | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Einishori Detrolerm Products | 16 | 13.932 | - | 430 | 0 | ∞ | 596 | 0 | 8 | 14,122 | 11,628 |
| Finished Motor Gasoline | | 7,357 | ٥ | -715 | 0 | 0 | 489 | 0 | 0 | 7,131 | 4,794 |
| | | 4,839 | 0 | -363 | 0 | 0 | 96 | 0 | 0 | 4,572 | 2,874 |
| Finished Unleaded Motor Gasoline | | 2,518 | 0 | -352 | 0 | 0 | 393 | Φ | 0 | 2,559 | 1,919 |
| Gasohol | | 0 | 0 | 0 | 0 | 0 | 0 | φ. | 0 | 0 ; | - |
| Finished Aviation Gasoline | 0 | 25 | 0 | φ. | 0 | 0 | 14 | 0 (| 0 | 8 | , s c |
| Naphtha-Type Jet Fuel | | 408 | O (| 9 8 | 0 | 0 0 | 79- | 0 0 | - | 100 | 500 |
| Kerosene-Type Jet Fuel | | 476 | 00 | 55 | 5 C | - | 285 | o c | O | 65 | 3 8 |
| Kerosene | | 3 669 | - | -20 | 0 | 0 | -442 | 0 | 0 | 3,208 | 3,549 |
| Residual Filef Oil | | 477 | 0 | -94 | 0 | 80 | 0 | 0 | ٥ | 391 | 545 |
| Naphtha and Other Oils for Petro. Feed. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - 1 | ۲ ٬ | D (|
| Special Naphthas | | ø | - | 4 | 0 | 0 | 0 | 0 | 0 | m (| 2 6 |
| Lubricants | | 30 | <u>(s)</u> | | 0 | 0 | 0 | 0 | - 1 | 52 | . S |
| Waxes | | တ | 0 | - | 0 | 0 | 0 | 0 | 0 | 10 | 4 |
| oke | | 324 | 0 | -58 | 0 | 0 | 0 | 0 | φ. | 266 | 961 |
| Asphalt | 0 | 562 | 0 | 376 | 0 | 0 | 0 | 0 (| - (| 93/ | ا در |
| Road Oil | 0 | 0 | 0 | 0 | 0 | 0 | o · | 0 (| o (| > (| n (|
| Still Gas | | 516 | 0 | 0 | 0 | 0 | 0 (| 0 (| | 31c |) (|
| Miscellaneous Products | 16 | 83 | 0 | 7 | 0 | 0 | 0 | 0 | ē) | 5 | V |
| Total | 20,219 | 14,004 | 2,158 | -471 | -6,152 | 0 | 149 | 13,757 | 8 | 16,148 | 29,180 |
| | | | | | | | | | | | |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District V Supply and Disposition of Crude Oil and Petroleum Products, October 1982

| | | | | Supply | | | | | | | |
|--|-----------------|-----------------------------|------------|------------------------------------|-------------------------------|------------------|-----------------|--------------------|-------------|----------------------|------------------|
| Commedia | | | | Stack | | | | | Disposition | | |
| Allegation | Preduc- tion | Hefinery Produc- tion | fmports | with- drawal (+) or Addi- | Unac- counted For Crude | Used Directly | Net Receipts | Refinery Inputs | Exparts | Products Supplied | Ending Stocks |
| Crude Oil (Including lease condensate) | | | | tion (-) | 5 | Losses | | | | nauddo | |
| Natural Gae Bione 1 | E 86,404 | 0 | 6,279 | -5,346 | 1,558 | -1599 | 200 | | | - | |
| Liquefied Petroleum Gases | | 1.216 | 446 | | | 600 | -41,423 | 59,994 | 5,879 | 0 | 88,282 |
| Ethane | Ö | 1,206 | 446 | -348 | Φ (| 0 | 0 | 944 | 144 | • | |
| Other Products3 | 0 7 | 10 | 0 | 0 | > c | 0 0 | 0 | 710 | 141 | 1,300 | 2,124 |
| Line I wash | | 0 | 0 | 4 | 0 | > c | 0 (| 0 | 0 | 5 | ליאמי |
| Other Hydrococket | 855 | • | | | • | > | 0 | 234 | Q | 183 | , <u>c</u> |
| Unfinished Oils | 855 | - (| 56 | 855 | 0 | c | 950 | | | | 5 |
| Motor Gasoline Planding Comments | 0 | o c | 00 | 0 | 0 | 0 | 900 | 1,288 | 0 | 92 | 33.987 |
| Aviation Gasoline Blooding Components | 0 | O C | - 6 | 1,509 | 0 | 0 | 356 | ຊີກິດ | 0 | 0 | ın |
| components | 0 | · c | 9 9 | -635 | 0 | 0 | 3 | 070 | 0 | 473 | 25.565 |
| Finished Petroleum Droduct | | > | > | -19 | 0 | 0 | o c | 1,1/4 | 0 | 565 | 8,379 |
| Finished Motor Carolina | 0 | 64 552 | , 0, 0 | 4 | | | • | <u> </u> | 0 | 0 | 38 |
| Finished Leaded Most Co. | | 27.076 | 4,494 | 3,214 | 0 | 1.570 | 9 4 7 9 | • | , | | |
| Finished Halout and Gasoline | · c | 20,01 | 586,1 | 746 | 0 | | 1,000 | > (| 6,243 | 68,566 | 51.837 |
| Sacobol | o c | 12,004 | 1,034 | 210 | 0 | - | 100, | 0 (| 7 | 31,663 | 19,199 |
| Diobot A Lotoria | | 5,50 | 354 | 533 | 0 | | 5 | 0 | 7 | 14.889 | 957 |
| Naphtha T. | > C | 9 46 | 0 | ო | 0 | o c | 514 | 0 | 0 | 16,726 | 88.6 |
| Vapilitia-1ype Jet Fuel | 0 0 | 291 | 0 | 94 | | 0 0 | > (| 0 | 0 | 49 | 20,0 |
| Nerosene-type Jet Fuel | > 0 | 1,389 | 0 | 175 |) C | > 0 | 40 | 0 | 0 | 156 | 1 1 1 1 |
| verosene | > (| 6,166 | 0 | 775 | · c | - | 133 | 0 | (s) | 1.697 | 200 |
| Distrilate Fuel Oil | > (| 135 | 0 | 10 |) C | > 0 | 224 | o | 35 | 7,130 | 2,233 |
| Hesidual Fuel Oil | - (| 9,804 | 333 | 454 | o c | <u>ئ</u> د | 0 | 0 | (s) | 145 | , c |
| Naphtha and Other Oils for Petro. Feed. | ɔ ɾ | 9,242 | 720 | 788 | o c | 4 223 | 657 | 0 | 1,191 | 10.292 | 98-0 |
| Special Naphthas | 0 0 | 747 | 59 | -232 | 0 0 | 000 | 3/3 | 0 | 2,265 | 10.193 | 9,030 |
| Ludhcants | > (| 115 | 19 | -10 |) C | ٥ | ο (| 0 | 4 | 541 | 0,00 |
| Waxes | → (| 305 | (s) | -178 |) C | - | 0 9 | 0 | 8 | 122 | 200 |
| retroleum Coke | > (| ස | c) | 12 | , c | > 0 | -10 | 0 | 49 | 8 | 101 |
| Asphalt | - | 3,140 | 0 | 172 | o c | - (| 0 | 0 | 7 | 3 8 | 4-4, |
| Hoad Oil | > (| 1,887 | 0 | 424 | 0 0 | > (| Φ. | 0 | 2,680 | 632 | 7 |
| Still Gas | Э. | 80 | 0 | , c | 0 0 | > (| 0 | 0 | • | 2000 | 000, |
| Miscellaneous Products | Φ, | 3,284 | 0 | o C | - | 0 (| 0 | 0 | 10 | 500°,2 | 1,411 |
| | 0 | 140 | 0 | 12, | > 0 | o (| 0 | 0 | 0 | 3 28 4 | 77 |
| Total | | | ı | į | > | 0 | 0 | 0 |) LCI | 2,504 | 0 60 |
| *************************************** | 88,330 | 65,768 | 9.246 | 1695 | 7 | | | | , | 604 | 202 |
| 1 Unancounted for sold- | | | 2 | 1,063 | 1,338 | 87 <u>-</u> | -18.801 | 50 006 | 40.000 | | |
| 2 Total carried for crude oil is a balancing item. | | | | | | | | 05,460 | 12,263 | 69,958 | 176,230 |

Unaccounted for crude oil is a balancing item.
 Total equals refinery fuel use and loss.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Current Month,¹ August 1982 (Thousands of Barrels)

Production Daily Average

Total

88 88 329 562 562 562

2,601 2,680 E 1,949 E 10,192 E 17,422

| | Prod | Production | | |
|---|-----------|------------|---|----------|
| PAD District and State | Total | Daily | PAD District and State | Į, |
| PAD District 1 | | | PAD District IV | |
| Florida | 2,063 | 29 | Colorado | c, |
| | E71 | 7 | Montana | 2 |
| B | E 317 | 10 | Utah | m 7 |
| *************************************** | 0 | 0 | Wyoming | E 10. |
| | E 295 | 10 | - 1 | E 17 |
| Total | E 2,746 | 83 | | |
| DAN District II | | | PAD District V | |
| Illinois | 2 500 | ā | Alaska | |
| 14th IQO | 2,200 | 5 9 | South Alaska | ci. |
| Indiana | 1040 | <u>د</u> . | North Slope | 50, |
| Kansas | 5,851 | 192 | Total Alaska | 52, |
| Kentucky | 556 | χ. 1 | Arizona | |
| Michigan | 2,586 | 83 | California | |
| Missouri | n O | - | Central Coastal | Ö |
| Nebraska | 280 | 19 | East Central | S, |
| North Dakota | 4,137 | 133 | North | |
| Ohio | E 1,151 | 37 | South | Ö |
| Oklahoma | 13,083 | 422 | lotal California | æ, |
| South Dakota | 102 | ო | Nevada | |
| Tennessee | 40 | ო | 10131 |), 20 |
| Total | E 31,170 | 1,005 | United States Total | E 267.9 |
| PAD District III | | | | ; |
| | 1 683 | ž | Includes offshore production. | |
| b b p p p p p p p p p p p p p p p p p p | 1,000 | ţ û | Sources: See Explanatory Notes on Data Collection and Estimation. | mation. |
| Cuisiana | 20. | 3 | E Estimated. | |
| Gulf Coast | 36.376 | 1 173 | | |
| Rost Of State | 3075 | 26 | | |
| Total Louisiana | 39.391 | 1271 | | |
| Mississippi | 2.828 | 91 | | |
| New Mexico | | | | |
| Northwestern | 208 | 16 | | |
| Southeastern | 5,465 | 176 | | |
| | 5,973 | 193 | | |
| Texas | ! | j | | |
| TRRC District 01 | 2,197 | Ε. | | |
| TRRC District 02 | 3,416 | 110 | | |
| TRRC District 03 | 10,764 | 347 | | |
| THE District 04 | 2,358 | و ج | | |
| THE DISHOT US | 000 | 3 | | |
| TROC District 06, excluding East Texas | 3,537 | 4 6 | | |
| 1000 District 070 | 7,7,7 | 8 8 | | |
| THAC DISHOLOVO | 4,600 | 06.0 | | |
| IHHC Using 08 | 19,402 | 979 | | |
| | 20,100 | 844 | | |
| The District of | 3,203 | 34 | | |
| | 1,748 | ន្តទុ | | |
| East lexas | 4,422 | 541 | | |
| Total Texas | 7,393 | 2,497 | | |
| Total | E 128,869 | 4,157 | | |
| | | | | |

212 674 1 220 1,107 2,807

6,587 20,892 16 6,831 34,326 50 87,022

8,620

E 267,229

76 1,621 1,697

2,370 50,247 52,617 29

Table 12. Offshore Production of Crude Oil (including Lease Condensate) By State, for the Most Current Month, 1 August 1982 (Thousands of Barrels)

| | Offshore | Offshore Production |
|-----------------------|----------|---------------------|
| State | Total | Daily Average |
| Alaska2California | 2,118 | 89 |
| Federal | 2,491 | 8 |
| State | 3,356 | 108 |
| Louisiana | 5,847 | 189 |
| Federal | 23,451 | 756 |
| State | 2,154 | 69 |
| Louisiana, LotalTexas | 25,605 | 826 |
| Federal | 1,283 | 41 |
| Sidile | 139 | 4 |
| lexas, lotal | 1,422 | 46 |
| United States Total | 34,992 | 1,129 |

These production data are included in Table 11.
 All offshore production within State boundaries.
 Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 13. Production of Lease Condensate by State, for the Most Current Month,¹ August 1982 (Thousands of Barrels)

1 These production data are included in Table 11. Small amounts of lease condensate are known to be produced in states other than those listed, however, statistics on this production are not available.

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 14. Natural Gas Processing Plant Production of Petroleum Products by PAD District, October 1982 (Thousands of Barrels)

| | b/ | PAD District | 1 1 | | PΑ | PAD District II | == | | | | PAD District II | rict III | | | PAD | PAD | |
|--------------------------------------|---------------|------------------------|-------|------------------------|--------------------|---------------------------|-------------------------|--------|--------|------------------------|-----------------|--|---------------|---------|--------------------------|--------------------------|--------|
| Commodity | East Coast | Appala- chian #1 | Total | Appala- chian #2 | Ind., III., Ky. | Minn., Wisc., Daks. | Okła., Kans., Mo. | Total | Texas | Texas Gulf Coast | Gulf Coast | بن | New Mexico | Total | Dist. IV Rocky Mt. | Dist. V West Coast | United |
| Natural Gas Plant Liquids | 568 | 358 | 926 | 0 | 1.938 | 437 | 6.548 | 8.923 | 19.219 | 2.746 | 8.000 | 829 | 3,440 | 34,234 | 2,243 | 1,071 | 47,397 |
| Isopentane | 0 | 0 | 0 | 0 | 0 | 0 | 316 | 316 | 458 | 7 | 42 | 0 | ٥ | 571 | 2 | 0 | 889 |
| Natural Gasoline | 8 | 35 | 116 | 0 | 28 | 96 | 1,045 | 1,199 | 1,992 | -447 | 1,105 | 144 | 233 | 3,028 | 397 | 438 | 5,179 |
| Unfractionated Stream | 28 | 0 | | 0 | 983 | 92 | -2,573 | -1,513 | 8,070 | -11,683 | 972 | 7 4 4 | 2,180 | -316 | 931 | -18 | -888 |
| Plant Condensate | 0 | 0 | 0 | 0 | 39 | 0 | 22 | 6 | 210 | 929 | 52 | -77 | ო | 1,090 | 17 | Φ | 1,168 |
| Liquefied Petroleum Gases and Ethane | 459 | 323 | | 0 | 857 | 265 | 7,738 | 8,860 | 8,489 | 13,876 | 5,855 | 618 | 1,023 | 29,861 | 988 | 651 | 41,049 |
| Ethane | 157 | 165 | | 0 | 405 | 0 | 1,626 | 2,030 | 1,495 | 2,692 | 2,235 | 4 | 95 | 6,557 | 9 | 0 | 8,915 |
| Propane | 180 | 106 | | 0 | 314 | 162 | 2,637 | 3,113 | 2,955 | 3,880 | 1,974 | 173 | 509 | 9,491 | 557 | 393 | 13,840 |
| Butane | 97 | 35 | | 0 | 57 | 99 | 1,038 | 1,179 | 1,274 | 2,705 | 744 | 229 | 186 | 5,138 | 315 | 202 | 996'9 |
| Butane-Propane Mixtures | 0 | 0 | | ٥ | 18 | 0 | 0 | 19 | 67 | 21 | 2 | 13 | 0 | 102 | 7 | 35 | 162 |
| Ethane-Propane Mixtures | 0 | 0 | | 0 | 83 | 0 | 1,996 | 2,029 | 2,042 | 3,216 | 164 | 0 | 169 | 5,592 | 0 | 0 | 7,621 |
| Isobutane | 56 | 18 | | 0 | 36 | 4 | 44 | 491 | 655 | 1,362 | 737 | 159 | 68 | 2,981 | 10 | 8 | 3,545 |
| Finished Motor Gasoline | 45 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Finished Leaded Motor Gasoline | 45 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Finished Unleaded Motor Gasoline | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gasohol | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finished Aviation Gasoline | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 51 |
| Naphtha-Type Jet Fuel | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kerosene-Type Jet Fuel | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kerosene | 0 | 0 | | ٥ | 0 | 0 | 0 | 0 | (S) | 0 | 0 | (s) | Ø | ო | 0 | 0 | က |
| Distillate Fuel Oil | 0 | 0 | | 0 | 0 | 0 | 8 | 2 | • | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Special Naphthas | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 44 |
| Miscellaneous Products | 0 | 0 | | 0 | - | 0 | 5 | 4 | 143 | 4 | ო | 2 | - | 158 | 16 | 0 | 188 |
| Total Production | 613 | 358 | 970 | 0 | 1,939 | 437 | 6,563 | 8,939 | 19,459 | 2,750 | 8,002 | 836 | 3,444 | 34,490 | 2,259 | 1,071 | 47,730 |

Production represents quantity of natural gas processing plant output less input to fractionating facilities.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Refinery Input of Crude Oil and Petroleum Products by PAD District, October 1982 (Thousands of Barrels, Except Where Noted)

| | ď | PAD Distric | 120 | | 4 | PAD District II | == | | | | PAD District II | strict III | | | PAD | PAD | |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------|-------------------------|------------------------|--------------------|------------------------|------------------------|--------------------|-------------------|------------------------|--------------------------|--------------------------|--------------------------|
| Commodity | East Coast | Appala- chian #1 | Total | Appala- chian #2 | Ind., III., Ky. | Minn., Wisc., Daks. | Okla., Kans., Mo. | Total | Texas | Texas Gulf Coast | La. Gulf Coast | No. La., Ark. | New Mexico | Total | Dist. IV Rocky Mt. | Dist, V West Coast | United States |
| Crude Oil (including lease condensate) 32,600 | 32,600 | 1,829 | 34,429 | 1,752 | 49,779 | 8,157 | 21,549 | 81,237 | 13,594 | 91,133 | 62,951 | 5,236 | 2,427 | 175,341 | 13,236 | 59,994 | 364,237 |
| Natural Gas Plant Liquids | | | | | | | | | | | | | | | | | |
| Natural Gasoline and Isopentane | ۲2 | 0 | 21 | 0 | 384 | 230 | 781 | 1,395 | 840 | 1,892 | 464 | 111 | 123 | 3,430 | 75 | 234 | 5,155 |
| Unfractionated Stream | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plant Condensate | 0 | 0 | 0 | 0 | 142 | 0 | 5 | 155 | 36 | 750 | 7 | 215 | 0 | 1,003 | 8 | 0 | 1,239 |
| LPG and Ethane | 166 | S | 17 | 9 | 1,582 | 413 | 1,078 | 3,164 | 266 | 2,210 | 1,895 | 103 | 8 | 5,034 | 403 | 710 | 9,482 |
| Ethane | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 33 | 0 | 0 | 33 |
| Propane | ٥ | 0 | 0 | 0 | 49 | 0 | 0 | 49 | 0 | 0 | 46 | 0 | 0 | 46 | 4 | 0 | 66 |
| Normal Butane | 9 | 0 | 16 | 47 | 650 | 238 | 594 | 1,589 | 278 | 1,669 | 968 | 37 | ~ | 2,959 | 2 | 192 | 4,826 |
| Other Butanes | 0 | 0 | 0 | 0 | 245 | 76 | 99 | 387 | 106 | 239 | 0 | 0 | 0 | 345 | 252 | 275 | 1,259 |
| Butane-Propane Mixtures | 0 | 0 | 0 | 0 | က | 0 | 0 | ო | 0 | 171 | ස | 0 | 32 | 241 | က | 0 | 247 |
| Ethane-Propane Mixtures | 0 | 0 | ٥ | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | ٥ | 0 |
| Isobutane | 150 | S | 155 | 4 | 635 | 33 | 418 | 1,136 | 382 | 125 | 809 | 8 | 88 | 1,410 | 74 | 243 | 3,018 |
| Other Liquids | | | | | | | | | | | | | | | | | |
| Other Hydrocarbons | 121 | 0 | 121 | 0 | 382 | 0 | 0 | 382 | 33 | 437 | 144 | c | < | 4 | 9 | 851 | 9.036 |
| Alcohol | 0 | 69 | 69 | ٥ | | 0 | 0 | 0 | 0 | C | C | - | 0 0 | 0 | 3 0 | 3 | i i |
| Unfinished Oil (net) | 4,963 | -23 | 4,940 | 107 | 1,033 | -143 | 312 | 1,309 | 747 | 3,953 | 3,089 | -127 | 9 | 7,756 | -253 | 1,626 | 15,378 |
| Components (net)Aviation Gasoline Blending | 714 | 12 | 726 | 12 | 2,027 | 9/- | 265 | 2,228 | 408 | 645 | 1,858 | 16 | 7 | 2,118 | 146 | -1,174 | 4,044 |
| Components (net) | 4 | 0 | 4 | 0 | 28 | 0 | 7 | 65 | હ્ | 8 | -10 | 0 | 0 | -23 | Q | -19 | 19 |
| Total Input to Refineries | 38,581 | 1,892 | 40,473 | 1,962 | 55,387 | 8,581 | 24,005 | 89,935 | 15,576 | 101,038 | 3 70,393 | 5,554 | 2,711 | 195,272 | 13,757 | 62,226 | 401,663 |
| Crude Oil Distillation Gross Input (daily average) Operable Capacity (daily average) Operating Ratio (percent) ¹ | 1,090 1,633 66.8 | 61 99 61.7 | 1,152 1,733 66.5 | 63 66 95.3 | 1,673 2,362 70.8 | 279 295 94.5 | 701 885 79.2 | 2,715 3,608 75.3 | 472 622 75.9 | 3,059 4,301 71.1 | 2,079 2,756 75.4 | 177 267 66.5 | 87 120 72.4 | 5,875 8,066 72.8 | 432 597 72.5 | 1,978 3,169 62.4 | 12,151 17,172 70.8 |
| Crude Oil Qualities Sulfur Content, Weighted Average | 7 | ţ | 4 | 1 | č | | ŀ | 3 | 8 | 8 | í | | , | : | 1 | , | |
| API Gravity, Weighted Average | 30.44 | 42.13 | 31.04 | ./3 37.40 | 35.82 | 30.97 | 36.94 | 35.66 | 38.08 | 33.88 | 32.20 | 31.12 | .27 39.20 | 33.94 34.94 | .77 36.26 | 1.01 | 32.69 |

¹ Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Refinery Production of Petroleum Products by PAD District, October 1982 (Thousands of Barrels)

| | ď | PAD Dictrin | - | | PAG | PAD District | = | | | | PAD Dist | District III | | | PAD | PAD | |
|--|---------------|------------------------|----------|------------------------|--------------------|---------------------------|-------------------------|------------|--------|------------------------|----------------|--------------|------------|---------------------------------|--------------------------|--------------------------|---------|
| Commodity | East Coast | Appala- chian #1 | Total | Appala- chian #2 | Ind., III., Ky. | Minn., Wisc., Daks. | Okla., Kans., Mo. | Total | Texas | Texas Gulf Coast | Gulf Coast | - 1 | New | Total | Dist. IV Rocky Mt. | Dist. V West Coast | United |
| | , | | ţ | č | 7.467 | 90 | 443 | 2 110 | 970 | 1 905 | 1 167 | 4 | 73 | 3.418 | 72 | 1.216 | 7,993 |
| Liquefied Petroleum Gases and Ethane | 1,174 | | 107 | ה כ | 200 | • | 3 5 | 258 | 7 | 898 | 218 | ; - | 0 | 1,128 | 0 | 128 | 1,711 |
| For Other Hees | 477 | 9 (7) | 980 | ° E | 1.267 | 193 | 361 | 1,852 | 208 | 1,007 | 949 | 83 | 73 | 2,290 | 72 | 1,088 | 6,282 |
| Fthane | 0 | 0 | 0 | 0 | 30 | | 0 | စ္တ | 0 | 110 | Ξ | 0 | 0 | 121 | 0 | 2 | 19 |
| For Petrochemical Feedstock Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | Ξ | 0 | 0 | 121 | 0 | 0 | 121 |
| For Other Uses | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 (| 9 1 |
| Propane | 977 | က | 980 | 31 | 1,356 | 172 | 525 | 2,084 | 217 | 1,766 | 1,318 | 4 | 47 | 3,390 | 181 | 8/8 | 7,514 |
| For Petrochemical Feedstock Use | 193 | | 193 | 0 | 200 | 0 | 25 | 252 | 0 | 617 | 9 | 0 ! | 0 (| 778 | ٥ ; | 2 6 | 1,329 |
| For Other Uses | 784 | | 787 | 8 | 1,156 | 172 | 473 | 1,832 | 217 | 1,149 | 1,157 | 4 5 | 47 | 2,612 | <u>ال</u> ة (| 2 6 | 0,100 |
| Butane | 195 | 0 | 195 | 0 | æ | 27 | -112 | 4 | op (| <u> </u> | -138 | ٥, | ه م | 4 6 | è ' | 9 5 | 2 2 |
| For Petrochemical Feedstock Use | 4 | 0 | 4 | 0 | 0 | တ | 0 | ဖ | 0 | 2 | 8 | - (| • | 6 6 6 |) C | 3 2 | ž 5 |
| For Other Uses | 191 | | 191 | 0 | ₩ | 77 | -112 | <u>-</u> | တူ (| <u>ج</u> | -172 | n (| ٥ و | 5 5 5 6 6 7 7 | 10. | 40, | ī 8 |
| Butane-Propane Mixtures | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | -24 | N (| 2 6 | 200 | 7 0 | - 0 | 2 5 |
| For Petrochemical Feedstock Use | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 ; | 12 | o (| - 6 | 2 5 | - | ٠ - | 7 0 |
| For Other Uses | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 99 | ~ | ຊ ' | 7 | γ. | - (| 9,1 |
| Isobutane for Petro, Feed, Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ξ | 5 | 0 | 0 | 0 | 112 | 0 | 0 ! | 211 |
| Finished Motor Gasoline | 18,105 | | 18,614 | 1,098 | 31,231 | 4,551 | 13,321 | 50,201 | 8,223 | 45,143 | 33,448 | 1,592 | 1,255 | 89,661 | 7,357 | 27,975 | 193,808 |
| Finished Leaded Motor Gasoline | 7,078 | 322 | | 229 | 15,095 | 2,582 | 7,996 | 26,232 | 4,240 | 17,811 | 16,862 | 1,200 | 761 | 40,874 | 4.839 | 12,604 | 91,949 |
| Finished Unleaded Motor Gasoline | 11,027 | | • | 539 | 16,106 | 1,969 | 5,321 | 23,935 | 3,982 | 27,332 | 16,586 | 392 | 494 | 48,786 | 2,578 | 15,325 | 101,78 |
| Gasohol | 0 | 0 | 0 | 0 | ဓ | 0 | 4 | 34 | - | 0 | 0 | 0 | 0 | - ! | 0 ; | 40 | 5 |
| | 9 | | | 0 | 74 | 0 | 32 | 106 | 80 | 268 | 131 | 0 | 0 | 407 | 3 | 162 | 9 5 |
| Naphtha-Type Jet Fuel | 387 | . 4 | | 5 | 478 | 83 | 378 | 928 | 710 | 1,148 | 434 | 183 | 223 | 2,698 | 408 1 | 1,389 | 0,880 |
| Kerosene-Type Jet Fuel | 773 | | | 17 | 3,052 | | 501 | 3,774 | 656 | 5,699 | 6,937 | 0 | 52 | 13,31/ | 4/6 | 9 1 | 24,500 |
| Kerosene | 461 | | | 0 | 513 | | -112 | 460 | 104 | 1,227 | 1,508 | ន | 54 | 2,886 | 200 | 55.0 | 4,007 |
| Distillate Fuel Oil | 9,206 | ч, | 9,805 | 415 | 11,371 | 2,168 | 6,823 | 20,777 | 3,376 | 24,970 | 13,198 | 1,436 | 915 | 43,895 | 3,669 | 9,804 | 87,950 |
| Distillate Fuel Oil Less No. 4 | 9,206 | | | 414 | 11,353 | | 6,823 | 20,758 | | 24,667 | 13,081 | 1,370 | [2] | 181,181 | 5,040 0,040 | 50 t | 87,078 |
| No. 4 Fuel Oil | | | - | | 18 | | 0 | 13 | | 303 | 117 | 8 5 | 194 | 41,055 | 3 (| 200 | 210 |
| Residual Fuel Oil | 3,019 | 4, | 3,075 | 7 | 1,198 | 328 | 484 | 2,134 | | 040, | 000 | ų 4 c | 9 < | 200 | ; | 3,44 | 200,4 |
| Naphtha < 400 Deg. For Petro. Feed. Use | . 45 | 0 | 455 | 0 (| 20 00 | > (| 9 - | 140 | | 0.407 | 9 6 | 5 5 | o c | , r | o C | 558 | 7.944 |
| Other Oils > 400 Deg. For Petro. Feed. Use | | | D | > C | | o c | - 40 | 050 | 107 | 4,050 673 873 | 2 2 4 | 526 | 0 | 1.044 | ω. | 115 | 1.601 |
| Special Naphthas | 9 4 | 8 8 | | > C | 0 4 | - | 200 | e a | | 1 643 | | 3 2 | 0 | 2.542 | ဓ္က | 305 | 4,394 |
| Lubricants | n c | | | 0 0 | 25 | O C | 45 | 3 8 | | 98 | | 0 | 0 | 153 | ٥ | 18 | 386 |
| | . 2 | | | | 351 | 0 | 218 | 269 | 0 | 731 | 572 | 96 | 0 | 1,399 | 83 | 233 | 2,527 |
| Other Grades | 254 | | | 0 | 95 | 0 | 76 | 171 | 12 | 823 | | 125 | 0 | 990 | ကု | 24 | 1,481 |
| Wax | 21 | | | ٥ | က | 0 | 30 | 8 | ω | 83 | 69 | 88 | 0 | 194 | a | 23 | 365 |
| Microcrystalline | ۰. | | | | 0 | 0 | 22 | 8 | ω | α) | 0 ; | 34 | 0 (| G ; | 0 (| <u>ا</u> د | 20 6 |
| Crystalline-Fully Refined | . 12 | 25 | 37 | | 2 | 0 | ; | თ (| 0 | 22 | ტ ⁽ | 0 0 | o 0 | <u> </u> | 3 3 C | υ ÷ | C 6 |
| Crystalline—Other | თ | | _ | 0 | - ! | | 7:-0 | α <u>(</u> | 2 | 3 5 | 0 0 | , 1, | > ‡ | 3 8 6 | 300 | 3 140 | 12.250 |
| Petroleum Coke | 1,033 | 4) i | 1,038 | 24 | 1,728 | 321 | 717 | 2,890 | 282 | 4,476 | 9,5 | 5 : | = = | 9,000 | 165 | 2,5 | 7.143 |
| Marketable | 358 | ۱ ب | 328 | | 201,1 203 | | 9 6 6 6 | 400,4 | 22.0 | 1 400 | 5.5 | 26 | . = | 2.463 | 129 | 779 | 5,117 |
| Catalyst | . 6/3 | ., c | 2 250 | 4 5 5 | | 727 | 546 | 3 977 | 514 | 528 | 1.923 | 96 | 8 | 3,950 | 562 | 1,887 | 13,628 |
| Asphalt | . 424. | ,, c | 202.5 | | | | ç | 9 | | 0 | 0 | 0 | 0 | 0 | | 60 | C/I |
| Road Oil | . 1701 | 7 2 | 1775 | 9 | 2.051 | 275 | 904 | 3.292 | 414 | 4,703 | 2,575 | 186 | 57 | 7,935 | ເກ | 3,284 | 16,802 |
| Cat Detectoring Readstory (too | . 4 | | 4 | | , | i | 0 | - | 9 | 486 | 104 | 0 | 0 | 296 | | 119 | 777 |
| Car Other Head | 1,660 | . 7 | 1 734 | 8 | 2.050 | | 904 | 3.291 | 408 | 4,217 | 2,471 | 186 | 23 | 7,339 | 4 | -3,165 | 16,025 |
| Miscellapeous Products | 300 | | 420 | | 100 | R | S | 178 | 92 | 1,044 | 579 | ន | 0 | 1,738 | ន | 140 | 2,499 |
| Total Output | 40.292 | 1.812 | 42.104 | 72027 | 58,022 | 8,839 | 24,794 | 93,682 | 15,816 | 105,498 | 73,021 | 5,608 | 2,752 | 202,695 | 14,004 | 65,768 | 418,253 |
| | | | | | | | | | 3 | | 0000 | ŭ | * | 7 493 | 776 | -2 542 | 16 590 |
| Processing Gain(-) or Loss(+)1 | 1,711 | Ø | 1,531 | - 6 | -2,635 | 502 | -/83 | -3,747 | -240 | | 070'5- | \$ | Ī | 7,1 | | 200 | - 1 |
| | | | | | | | | | | | | | | | | | |

Represents the arithmetic difference between input and output.
 Notes: Total may not equal sum of components due to independent rounding.
 See Explanatory Notes on negative product yield.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 17. Percent Refinery Yield of Petroleum Products by PAD District, 1 October 1982

| East Appala- Coast chian Total chian #2 45.5 23.4 44.5 53.5 | Ind., Minn., | | | | | | | | | | |
|---|--|-----------|--|---|------------|---|-----------|---|--|--|--|
| Coast chian Total chian 45.5 23.4 44.5 53.5 (9) .0 (8) .0 | | | <u> </u> | | 1 | PAU District | _ | | PAD | PAD | _ |
| 45.5 23.4 44.5 53.5 (9) .0 (s) .0 | Daks. | Kans. | Total | Texas Tr | Gulf G | Gulf No. La. | a., New | Total | Dist. IV Rocky | Dist. V West | United States |
| 2.1 2.2 3.0 1.7 2.2 3.0 2.0 6.2 2.3 2.4 5.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 2.3 2.4 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 | 52.6 49.7 (3) 49.7 (2) 49.7 (2) 49.7 (2) 49.7 (2) 49.7 (2) 49.7 (2) 49.7 (2) 49.7 (2) 49.7 (2) 49.0 (2) 49.0 (3) 49.0 (3) 49.0 (4) 49.0 (5 | | 51.9 (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) | 8.6. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 1 | 44.0 22.5 0.0 2.5 0.0 2.1 1.8 1.1 1.0 2.5 0.0 28.1 1.0 28.1 1.0 28.1 1.0 1.0 4.5 0.0 28.1 1.0 4.3 1.0 4.3 1.0 4.3 1.0 4.3 1.0 6.0 1.0 | | 6.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 | 700 88.8.8.9.4.2.5.4.2.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0 | Coast 15.0 2.0 2.0 10.0 10.0 10.0 10.0 10.0 10.0 | 25.2 2.1.2 2.2.2 2.2.2 2.2.2 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 |
| -4.0 4.4 -4.1 -3.5 | -5.2 -3.2 | -3.6 | 4.5 | -1.7 4 | 4.7 | 4.0 -1.1 | -1.6 | 4 | 6. | -5.7 | 4. |
| Execution to the fact and the returns of uniformished oils. Execution to total finished motor gasoline output plus net output of motor gasoline hydrocarbons and alcohol | gasoline blending components, minus input of natural nas plant limited when | mponents. | minus | nout of pa | atural gae | nlant finain | 440 | | | | |
| | 1 | | | | alulai yas | plant inqui | as, other | | | | |

hydrocarbons and alcohol.

Based on finished aviation gasoline output plus net output of aviation gasoline blending components.

Represents the arithmetic difference between input and Production.

(s) Less than 0.05 percent.

Note: Total may not equal sum of components due to independent rounding.

See Explanatory Notes on negative product yields.

Source: See Explanatory Notes on Data Collection and Estimation.

Table 18. Refinery Receipts of Crude Oil by PAD District, October 1982 (Thousands of Barrels)

| | PA | PAD District | _ | | PA | PAD District | | | | | PAD District III | trict III | | | | PAD | |
|---------------------------------|-----------------|------------------------|-----------------|------------------------|--------------------|--------------------------|-------------------------|------------------|---------------|------------------------|------------------|------------------|---------------|-------------------|--------------------------|-----------------|-------------------|
| Method | East | Appala- chian #1 | Total | Appala- chian #2 | ind., Ill., Ky. | Minn. Wisc., Daks. | Okla., Kans., Mo. | Total | Texas | Texas Gulf Coast | Coast Coast | No. La., Ark. | New Mexico | Total | Pist. IV Rocky Mt. | West Coast | United |
| Pipeline Domestic Foreign | 0 | 941 | 941 | 1,557 73 | 34,082 12,766 | 4,444 3,577 | 19,949 887 | 60,032 17,303 | 11,874 | 50,725 11,077 | 31,362 6,351 | 3,409 | 2,023 | 99,393 18,530 | 10,584 1,648 | 28,816 489 | 199,766 37,970 |
| Tanker Domestic Foreign | 3,605 24,767 | 00 | 3,605 24,767 | 00 | 317 | 00 | 00 | 317 | 00 | 6,104 19,872 | 5,085 16,207 | 00 | 00 | 11,189 36,079 | 00 | 25,110 5,760 | 39,904 66,923 |
| Barge Domestic Foreign | 0 4,682 | 143 | 143 4,682 | 00 | 1,027 668 | 00 | 00 | 1,027 668 | 00 | 5,224 57 | 4,873 188 | 115 534 | 00 | 10,212 779 | 00 | 578 0 | 11,960 6,129 |
| Tank Cars Domestic Foreign | 88 0 | 269 | 351 0 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 17 | 00 | 17 0 | 00 | 136 | 504 0 |
| Trucks Domestic Foreign | 00 | 446 0 | 446 | တ္ထ ဝ | 331 | £ 0 | 844 0 | 1,287 | 673 186 | 209 | 434 | 1,004 | 313 | 2,633 186 | 878 0 | 1,340 | 6,584 186 |
| Total DomesticForeign | 3,687 29,449 | 1,799 | 5,486 | 1,656 73 | 35,440 13,751 | 4,457 3,577 | 20,793 887 | 62,346 18,288 | 12,547 968 | 62,262 31,006 | 41,754 22,746 | 4,545 854 | 2,336 | 123,444 55,574 | 11,462 1,648 | 55,980 6,249 | 258,718 |

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 19. Fuels Consumed at Refineries by PAD District, October 1982 (Thousands of Barrels, Except Where Noted)

| | PA | D Distric | = | | PA | PAD District II | = | | | | PAD District III | trict III | | | PAD | PAD | |
|--|-------|-------------|-------|-------------|-----------|-----------------|---------------|-------|--------|---------------|------------------|----------------|--------|--------|--------------|---------------|--------|
| Ś | | - Appala- | | Appala- | 1 | Minn. | Okla. | | 1 | Texas | ģ | | | | Dist. IV | Dist. V | United |
| Commodity | Coast | chian #1 | Total | chian #2 | III., Ky. | Wisc., Daks. | Kans., Mo. | Total | Infand | Gulf Coast | Gulf | Ark. | Mexico | Total | Rocky Mt. | West Coast | States |
| | | | | | | | | | | | | | | | | | |
| Crude Oil (including lease condensate) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | O | 0 | 0 | 0 | (s) | (s) |
| Liquefied Petroleum Gases1 | 8 | 4 | 52 | 9 | 99 | 20 | 19 | 8 | (S) | - | 327 | 0 | 4 | 333 | O | 274 | 723 |
| Unfinished Oils | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Distillate Fuel Oil | 100 | 20 | 120 | 0 | 9 | 0 | (8) | ဖ | 5 | 0 | ო | 0 | (8) | 17 | 0 | 14 | 157 |
| Residual Fuel Oil | 559 | 52 | 610 | 17 | 321 | 61 | | 400 | 10 | 153 | 88 | 18 | 0 | 270 | 74 | 560 | 1,613 |
| Marketable Petroleum Coke | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 47 | 61 |
| Catalyst Petroleum Coke | 675 | LΩ | 681 | 24 | 584 | 2 | 218 | 883 | 224 | 1,348 | 800 | 2 6 | = | 2,409 | 160 | 780 | 4,918 |
| Still Gas | 1,408 | 74 | 1,482 | 8 | 1,994 | 274 | 805 | 3,136 | 333 | 3,927 | 2,302 | 179 | 26 | 6,797 | 493 | 2,993 | 14,901 |
| Other Fuels 2 | 0 | 0 | 0 | 0 | 76 | 0 | 0 | 92 | 0 | 18 | 0 | 0 | 0 | 38 | 61 | 2 | 167 |
| Natural Gas (million cubic feet) | 1,476 | 275 | 1,751 | 8 | 4,032 | 84 | 3,245 | 7,431 | 2,716 | 20,639 | 8,168 | 869 | 146 | 32,538 | 1,004 | 7,424 | 50,148 |
| Coal (thousand short tons) | 0 | Ε | = | O | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ξ |
| Purchased Electricity (million kWh) | 226 | 40 | 266 | 5 | 391 | 47 | 509 | 960 | 92 | 355 | 441 | ଷ | 92 | 918 | 131 | 779 | 3,053 |
| Purchased Steam (million pounds) | 909 | ις. | 605 | 0 | 145 | 0 | 0 | 145 | 0 | 0 | 536 | 0 | 0 | 536 | 0 | 710 | 1,996 |
| | | | | | | | | | | | | | | | | | |

Includes liquefied refinery gases.
 Includes small quantities of other petroleum products (e.g., unfinished oils, kerosene, etc.) consumed at refineries.
 Less than 500 barrels except where noted.
 Note: Total may not equal sum of components due to independent rounding.
 Source: See Explanatory Notes on Data Coflection and Estimation.

Table 20. Imports of Crude Oil and Petroleum Products by PAD District, October 1982 (Thousands of Barrets)

| Commodity | | Petroleum | Petroleum Administration for Defense Districts | n for Defens | se Districts | |
|--|--------|------------|--|---------------|--------------|---------|
| | - | = | = | 2 | > | Total |
| Crude Oil (including lease condensate) 1 2 | 28,582 | 16,406 | 59,825 | 1,629 | 6,279 | 112,721 |
| Natural Gas Liquids | 320 | 3 089 | 6 | i | | |
| Natural Gasoline and Isopentane | - | | 1 380 | 876 | 446 | 7,473 |
| Figure Concensate | 0 | 0 | , C | o c | 5 | 1,390 |
| Ethane | 319 | 3,988 | 802 | 468 | 446 | 900 |
| Propane | 0 | 1,105 | 0 | 0 | 2 | 1 105 |
| Butane | 265 | 1,890 | 0 | 234 | 7,2 | 2.466 |
| Butane-Propane Mixtures | X c | 887 | 802 | 234 | 369 | 2,346 |
| Ethane-Propane Mixtures | 0 0 | 2 C | 0 (| Q I | 0 | 0 |
| Other Liquids 1 | > | è | > | 0 | 0 | 107 |
| Unfinished Oils 1 | 2,786 | 503 | 2,999 | 0 | 98 | 6 314 |
| lending Components | 2,026 | 225 | 2,818 | 0 | 0 | 5.070 |
| *************************************** | AG/ | 277 | 181 | 0 | 26 | 1,244 |
| Finished Petroleum Products | 27,836 | 565 | 4.732 | • | | |
| Finished Loads Market Co. | 4,103 | m | (S) | - c | 4.00 | 35,628 |
| Finished Leaded Motor Gasoline | 2,696 | , , | (<u>(</u> | > 0 | 888 | 5,494 |
| Finished Aviation Country | 1,408 | N | C) | > C | 450. | 3,731 |
| Naphtha-Two let E.of | - | 0 | 0 | c | 3 | 50/- |
| Kerosene-Two let Engl | 91 | 0 | 0 | o c | > < | - 2 |
| Bonded Aircraft First | 534 | 0 | 0 | 0 | 0 0 | 200 |
| Other | 0 | 0 | 0 | 0 | 0 0 | , , |
| Kerosene | 534 | 0 | 0 | 0 | 0 | 534 |
| Distillate Fuel Oil | 497 | 0 | 0 | 0 | ٥ | 497 |
| Bonded ships bunkers | 2,324 | 0 | 357 | - | 333 | 3.014 |
| For military offshore use | 0 0 | φ. | 0 | 0 | 0 | 0 |
| No. 2 fuel oil | 0 000 | 0 (| 0 | 0 | 0 | 0 |
| No. 4 fuel oil | 470,7 | 5 0 | 18 | | 333 | 2,675 |
| Residual Fuel Oil | 0000 | 0 70 | 339 | 0 | 0 | 339 |
| Bonded ships bunkers | 600'e | 3.0 | 3,463 | 0 | 720 | 23,508 |
| For military offshore use | > 0 | ۰ د | 0 | 0 | 0 | Q |
| Other | 000 | 2 | 0 ; | ٥ | ٥ | 0 |
| Naphtha < 400 Deg. for Petro, Feed, Use | 9,003 | 316 | 3,463 | 0 | 720 | 23,508 |
| Other Oils > 400 Deg. for Petro, Feed, Use | - 07 | g (| 363 | 0 | 53 | 759 |
| Special Naphthas | 2 4 | - (| 0 ; | ٥ | 0 | 0 |
| Lubricants | \$; | æ 8 | 151 | - | 19 | 654 |
| Wax | 2 6 | 3 | (S) | (s) | (s) | 241 |
| Asphalt | 2 6 | 4 ; | 36 | 0 | ĸ | 118 |
| Miscellaneous Products | 32 | 4. | 0 | 0 | 0 | 146 |
| *************************************** | 210 | 5 | 363 | 0 | 0 | 573 |
| Total imports | 59,524 | 21,462 | 69.747 | 2 15g | 386 0 | 107 |
| | | | | , , | 3,440 | 102,137 |

Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by
the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, October 1982 (Thousands of Barrels)

| Source | Crude Oil 1 | LPG and Ethane | Unfin- ished Oils | Gasoline Blending Compo- nents | Finished Motor Gasoline | Jet Fuel | Kero- sene | Distii. Fuel | Resid. Fuel Oil | Special Naphthas | Other Prod- ucts 2 | Total Prod- ucts | Total Petro- leum | Total (Daily Average) |
|---|----------------|----------------------|-------------------------|---|-------------------------------|-------------|---------------|--------------------------|-----------------------|---------------------|--------------------------|------------------------|-------------------------|-----------------------------|
| | | | | | | | AII PAD | All PAD Districts | | | | | | |
| Arab OPEC | 3,965 | 0 | 0 | o | 0 | 0 | 0 | 0 | 3,401 | 0 | 362 | 3,763 | 7,728 | 249 |
| Libya | 0 | 0 | 0 | 0 ! | 0 (| 0 | 0 (| 206 | 0 0 | 0 0 | 0 0 | 206 | 206 | 7 |
| Saudi Arabia | 13,443 | 362 | 0 0 | 9 | 0 0 | 0 0 | - | 9 6 | > c | o c | 685, | 008. 0 | 15,304 | £ 16 |
| United Arab Emirates Subtotal Arab OPEC | 19,290 | 362 | 00 | 110 | 00 | 00 | 0 | 206 | 3,401 | 0 | 1,751 | 5,829 | 25,119 | 810 |
| Other OPEC | | | | | | | | | | | | | | |
| Ecuador | 1,839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 373 | 0 | 0 | 373 | 2,212 | 7 |
| Gabon | 765 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 765 | 52 |
| Indonesia | 6,740 | 0 | 0 | 0 | 240 | 0 | 0 | 09 | 4 | 0 (| 0 (| 8 8 | 7,044 | 227 |
| Iran | 3,356 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 6 | 0 (5) | 0 0 | Φ (| ۰ و | 3,356 | 5 5 |
| Nigeria | 3,000 | o ရှိ | 0.70 | ט אפר | > c | o c | 2 6 | 220 | (e) 6 548 | 257 | 747 | 8.460 | 15.384 | 496 |
| Subtotal Other OPEC | 28,629 | 88 | 272 | 265 | 240 | 00 | 88 | 383 383 383 383 | 6,924 | 257 | 747 | 9,137 | 37,767 | 1,218 |
| Other | | | | | | | | | | | | | | |
| Angola | 1,846 | ٥ | 0 | 0 | 0 | 0 | 0 | 0 | 271 | 0 | 0 | 271 | 2,118 | 68 |
| Australia | 0 | 333 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 333 | 333 | = 1 |
| Bahamas | 0 | 0 | 397 | 0 | 0 | 0 | 0 | 0 | 938 | 0 | 0 | 1,395 | 1,395 | 45 |
| Brazil | 1,681 | 0 | 0 | 0 | 341 | 238 | 0 | 0 | 338 | 0 (| 0 | 917 | 2,597 | ¥, |
| Brunei | 0 193 | 0 1 | o u | 0 90 | 43 | 00 | 0 0 | 28 24 | 280 | 0 174 | 365 | 7 562 | 14 193 | 456 |
| Egypt | on o | ? c | 3 | 9 0 | Š | c |) C | 3 | 3 0 | | 2 2 | 25 | 1.001 | 32 |
| Egypt | 9 0 | э ф | 2.5 | 0 | 0 | 0 | 0 | ু জ | • • | . 0 | <u>(</u> | 2 5 | 2 | ! - |
| Mexico | 20.742 | 0 | ; 0 | 0 | (s) | 0 | 0 | 24 | 349 | 4 | 80 | 385 | 21,127 | 682 |
| Netherlands | 0 | 0 | 178 | 0 | 1,190 | 0 | 0 | 0 | 407 | 0 | (s) | 1,775 | 1,775 | 27 |
| Netherlands Antilles | 0 | 0 | 849 | 0 | 0 | 0 | 0 | 0 | 3,702 | 0 (| æ ' | 4,585 | 4,585 | 148 |
| Norway | 6,018 | 0 (| 0 (| 0 (| 0 (| 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 00 | 0 0 | 6,018 | 25 25 |
| Oman Complete Octobring | 613 205 | 9 6 | > C | > C | 1 035 | - | o c | o 6 | o c | 9 0 | • • | 1.042 | 1,337 | S 4 |
| Peru | 357 | 0 | 0 | o o | 0 | 0 | 0 | 0 | 258 258 | 0 | 0 | 528 | 615 | 20 |
| Puerto Rico | 0 | 0 | 397 | 0 | 514 | 0 | 0 | 391 | 0 | ٥ | | 1,599 | 1,599 | 52 |
| Spain | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | (8) | (S) | (s) |
| Trinidad and Tobago | 2,752 | 0 | 0 | 0 | 0 | 0 | 0 (| 0 (| 612 | 0 (| 2 | 3 4 | 3,385 | 5 5 |
| Tunisia | 358 | ၁ | 00 | 0 0 | 5 C | - | 5 0 | o c | 243 | o c | s S | 336 | 20 637 | 51 999 |
| Virgio lelande | 06,02 | 9 0 | 1 729 | o c | 1 588 | 387 | 410 | 1.553 | 2447 | 0 | 0 | 8.114 | 8,114 | 262 |
| Yuooslavia | 0 | 0 | | 0 | 0 | 0 | 0 | ٥ | 0 | 220 | 0 | 220 | 220 | 7 |
| Zaire | 498 | 0 | 0 | 0 | 0 | 0 | 0 | o | 0 | 0 | 0 | 0 | 498 | 16 |
| Other Western | | | | | • | , | | | | • | 1 | , | 7 | Š |
| Hemisphere | 0 6 | 0 | 166 166 | | ٥ | 0 0 | 00 | | 1,414 | Þ | (E) | 1,623 | 5,029 5,087 | 1, 33 |
| Other Eastern Hemisphere | 1,800 | (s) | 3 6 | 57.0 67.0 | 900 | 2 6 | | 630 | 202. | (%) | 787 | 24.440 | 00 051 | 3 202 |
| Subtotal Other | 64,802 | SSC'C | 4,736 | | 4C7'C | S | | | 3 | ŝ | ē | <u>;</u> | 3 | 1 |
| Total Imports | 112,721 | 6,024 | 5,070 | 1,244 | 5,494 | 625 | 497 | 3,014 | 23,508 | 654 | 3,286 | 49,415 | 162,137 | 5,230 |
| See footnotes at end of table. | | | | | | | | | | | | | | |

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, October 1982 (Continued)

| Source | Crude Oil 1 | LPG and Ethane | Unfin- ished Oils | Gasoline Blending Compo- nents | Finished Motor Gasoline | Jet Fuel | Kero- sene | Disti. Fuel | Resid. Fuel | Special Naphthas | Other Prod- ucts 2 | Total Prod- ucts | Total Petro- leum | Total (Daily Average) |
|--------------------------------|---|---|-------------------------|---|-------------------------------|---------------|-----------------|----------------|----------------|---------------------|--------------------------|------------------------|-------------------------|-----------------------------|
| Array Opera | | | | | | | PAD District I | strict 1 | | | | | | |
| Algeria | 1.579 | c | • | • | • | | | | | | | | | |
| Libya | 0 | 0 | 0 | > c | 0 0 | 0 6 | 0 (| 0 | 2,310 | 0 | 0 | 2,310 | 3,889 | 125 |
| Saudi Arabia | 4,681 | 0 | 0 | 0 | 9 0 | 0 0 | - | 200 | 0 | 0 | 0 | 206 | 206 | _ |
| Subtotal Arab OPEC | 6,260 | 0 | 0 | 0 | 0 | 0 | 0 | 20e | 2340 | 0 0 | 00 | 0 0 | 4,681 | 151 |
| Other OPEC | | | | | | | | | | • | • | 4,510 | 8,776 | 283 |
| Gabon | 0 [| 0 | 0 | 0 | 0 | 0 | 0 | c | 379 | • | (| | į | |
| Nigeria | 2 467 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | > c | 00 | 372 | 372 | 2 |
| Venezuela | 3,04 | - E | 0 0 | 0 672 | 0 6 | 0 (| 0 | 0 | 0 | 00 | 00 | 0 | 2467 | e 8 |
| Subtotal Other OPEC | 6,078 | 88 | 0 | 242 | 00 | 00 | 8 8 | 229 | 5,131 | 143 | 495 | 6,383 | 9,427 | 30,5 |
| Other | | | | | | | : | } | 3 | ₹ | 490 C | 6,/35 | 12,833 | 414 |
| Angola | 1,074 | 0 | 0 | 0 | 0 | 0 | 0 | | 126 | c | (| į | | |
| Brazil | 98.0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 966 | 0 | > C | 271 | 1,346 | 4 6 |
| Canada | 3 | , 65 65 65 65 65 65 65 65 65 65 65 65 65 6 | > c | 0 (| ¥ 8 | 238 | 0 | 0 | 338 | 0 | 0 | 930 | 28.5 | 3 4 |
| Egypt | 0 | 0 | 0 0 | v c | | 0 0 | ∞ • | 282 | 464 | 42 | 138 | 1,429 | 1.43 | 46 |
| France | 0 | 0 | 0 | 0 | 9 0 | > C | 0 0 | 0 9 | 0 (| 0 | 2 | 2 | 2 | ·- |
| Mexico | 3,916 | 0 | 0 | 0 | 0 | 0 | - | <u>.</u> | o ų | 0 6 | <u>(</u> | <u>s</u> | <u>(S</u> | <u>(S</u> |
| Netherlands Antilles | 00 | 0 | 178 | 0 | 1,190 | 0 | 0 | 0 | 407 | > c | 0 | 45 | 3,961 | 128 128 |
| Norway | 2 650 | - | 8 8 8 8 | 0 (| 0 | 0 | 0 | 0 | 3,376 | 0 | 34 | 4 258 | 4.758 |)¢ 7¢† |
| Oman | 613 | - | o c | 0 0 | 00 | Φ (| 0 | 0 | 0 | 0 | 0 | 0 | 2,650 | § 8 |
| Peru | 0 | • | o c | - | > c | 3 0 | 0 0 | 0 1 | 0 | 0 | 0 | 0 | 613 | 8 8 |
| Puerto Rico | 0 | 0 | 397 | 0 | 514 | > C | > c | o ç | 528 | 0 | ٥ | 258 | 528 | ထ |
| Tunisia | 888 | 0 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | - - | è ° | 1,489 | 1,489 | 4 6 |
| United Kingdom | 5 50 50 50 50 50 50 50 50 50 50 50 50 50 5 | ə | 00 | 0 0 | 0 (| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35.8 | 5 5 |
| Virgin Islands | 0 | C | 9 | > c | 7 200 | 0 [| 0 | 0 | 243 | 0 | (s) | 243 | 5,811 | 187 |
| Yugoslavia | 0 | 0 | 0 | 0 | 90 | 797 | 2 0 | 412,1 | 2,408 | ٥ ۾ | 0 0 | 809'9 | 6,608 | 213 |
| Homischen | • | • | | | | , | • | > | • | 3 | > | 22 | 83 | 7 |
| Other Eastern Hemisphere | 908 | 0 (\$) | 0 0 | 0 4 | ۵ ۶ | 0 (| 0 | 0 | 1,414 | 0 | 0 | 1,414 | 1,414 | 46 |
| Subtotal Other | 16,244 | 256 256 | 2.026 | 517 | 4 103 | 0 959 | 0 1 | ٥ | 973 | <u>s</u> | (s) | 1,724 | 2,524 | 9 |
| Total Image | | | | ; | 3 | 3 | 4 | 500'- | 56. | 262 | 380 | 21,670 | 37,914 | 1,223 |
| - Stroding Pro | 28,582 | 319 | 2,026 | 759 | 4,103 | 625 | 497 | 2,324 | 19,009 | 405 | 874 | 30,942 | 59,524 | 1,920 |
| | | | | | | | PAD District II | ict II | | | | | | |
| Arab OPEC | | | | | | | | | | | | | | |
| Subtotal Arab OPEC | 1,223 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 1,223 | 8 |
| Other OPEC | | | | | | | | | | 1 | , | , | | ò |
| Nigeria Venezuela | 3,049 | 00 | 00 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | 3.049 | ğ |
| Subtotal Other OPEC | 3,393 | 00 | 5 0 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 000 | 343 | ş - ş |
| See footnotes at end of table. | | | | | | | | | | , | , | , | 3,330 | 3 |
| | | | | | | | | | | | | | | |

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, October 1982 (Thousands of Barrels) (continued)

| Source | Orde | LPG and | Unfin- ished | Gasoline Blending | Finished Motor | Jet | Kero | Distil. Fuel | Resid. Fuel | Special | Other Prod- | Total Prod- | Total Petro- | Total (Daily |
|--------------------------------|------------------|----------------|-----------------|----------------------|-------------------|---------------|------------------|-----------------|----------------|----------|----------------|----------------|-----------------|-----------------|
| | 5 | Ethane | Sio | nents | Gasoline | en L | sene | ΙΘ | Ö | Naphrhas | ucts 2 | ucts | letum | Average) |
| , | | | | | | | PAD District II | istrict II | | | | | | |
| Other | | | | | | | | | | | | | | |
| Canada | 4441 | 3,988 2,988 | 522 | 2 | m c | 0 0 | 0 0 | 0 0 | 316 | 8 | 167 | 5,056 | 9,497 | 306 |
| France | ტ ი ი | o c |) C | o c | > C | 0 0 | - | ə c | ٥٥ | 00 | 0 | O 9 | 4 85 5 | 16 |
| Mexico | 4,150 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 2 | | 4.150 | 134 |
| Norway | 980 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 980 | 32 |
| Spain | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | <u>(s)</u> | (s) | (8) | <u>(s)</u> |
| Ontice Kingdom | , , , , | <u>@</u> | 0 0 | | 0 0 | 0 0 | 0 0 | 0 0 | ۵ (| 0 | 0 | <u>@</u> | 1,221 | 33 |
| Subtotal Other | 11,790 | 3,988 | 8 | 27 | - ო | 0 | 0 | 0 | 316 | - 8 | (s) 167 | (s) 5.056 | 512 16.845 | 543 |
| Total Imports | 16,406 | 3,988 | 225 | 277 | ო | 0 | 0 | 0 | 316 | 8 | 167 | 5,056 | 21,462 | 692 |
| | | | | | | | PAD District [I] | strict (III | | | | | | |
| Arah OPEC | | | | | | | | | | | | | | |
| Algeria | 2,386 | 0 | 0 | 0 | 0 | 0 | ٥ | 0 | 1.090 | C | 362 | 1 452 | 3 839 | 124 |
| Saudi Arabia | 7,539 | 362 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 1,389 | 1,860 | 9,399 | 303 |
| United Arab Emirates | 1,881 | 0 8 | 0 (| 0 ; | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,881 | 6 |
| Subtotal Alab Orec | 000,11 | 382 | > | 2 | 0 | - | 0 | 0 | 1,090 | 0 | 1,751 | 3,313 | 15,119 | 488 |
| Other OPEC | • | • | • | , | | | | | | | | | | |
| Gabon | 1,839 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 00 | 0 0 | (S) | 0 0 | 0 (| (s) | 1,839 | 59 |
| İ | 1 553 | oc | 0 0 | 0 0 | 0 0 | > c | > < | - | > 0 | 0 | > c | 0 | 198 | တြင |
| Iran | 3,356 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | 3,356 | y 5 |
| Nigeria | 3,490 | 0 | Q | 0 | 0 | 0 | 0 | 0 | (s) | 0 | 0 | (S) | 3,490 | 5 = |
| Venezuela | 3,228 | 0 (| 272 | ន | 0 | 0 | 0 | 0 | 1,417 | 114 | 253 | 2,077 | 5,305 | 171 |
| Subtotal Other OPEC | 13,664 | 0 | 272 | ន | 0 | 0 | 0 | 0 | 1,417 | 114 | 253 | 2,078 | 15,742 | 508 |
| Other | | | | | | | | | | | | | | |
| Angola | 72 | 33 0 | 0 0 | 0 0 | 00 | 0 0 | 00 | 0 0 | 0 6 | 0 0 | 0 1 | 0 6 | 2772 | 52 |
| Bahamas | 0 | 30 | 397 | | 0 | 0 | 0 | 0 0 | o c | o c | > C | 397 | 30.7 20.7 | = = |
| Brazil | 1,316 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,316 | 4 5 |
| Canada | 0 | 4 | 0 | | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 47 | 47 | ~ |
| Egypt | 495 | 0 (| ۰ ; | | 0 | 0 | ۰. | 0 | 0 | ٥ | 0 | ٥ | 495 | 16 |
| Movino | 17676 | 5 C | 5 ° | | | 0 6 | 0 0 | 0 (| 0 2 | ۰ ۵ | 0 1 | 2 | 21 | - ! |
| Norway | 2,389 | > C | > C | | <u> </u> | > c | - | <u> </u> | 808 408 | 4 C | m c | 327 | 13,004 | £ 19 |
| Peru | 357 | 0 | 0 | | 0 | 0 | 0 | , 0 | 0 | - | > C | 5 C | 357 | ÷ 2 |
| Puerto Rico | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 110 | 110 | 4 |
| Trinidad and Tobago | 1,852 | 0 | 0 | | 0 | 0 | 0 | 0 | 612 | 0 | 2 | 634 | 2,486 | 80 |
| United Kingdom | 13,511 | සු අ | 0 (| | 0 (| 0 | 0 | 0 | 0 | 0 | (s) | 83 | 13,604 | 439 |
| Virgin Islands | > ç | > (| 1,12/ | | 5 | 0 | 0 | 333 | සි | 0 | 0 | 1,505 | 1,505 | 49 |
| Other Western | 0.00 0.00 | 5 | Þ | - | • | > | 0 | 0 | 0 | D | 0 | 0 | 498 | 9 |
| Hemisphere | 0 | 0 | 166 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 215 | 215 | 7 |
| See footnotes at end of table. | | | | | | | | | | | | | | |

Table 21. Imports of Crude Oil and Petroleum Products by Source and PAD District, October 1982 (Continued)

| | | ĺ | | | | | | | | | | | | |
|---|----------------|----------------------|-------------------------|---|-------------------------------|------------|------------------|-----------------|----------------|---------------------|--------------------------|------------------------|-----------------|-----------------|
| Source | Crude Oil 1 | LPG and Ethane | Unfin- ished Oils | Gasoline Blending Compo- nents | Finished Motor Gasoline | Jet | Kero- sene | Distil. Puel | Resid. Fuel | Special Naphthas | Other Prod- ucts 2 | Total Prod- ucts | Total Petro- | Total (Daily |
| | | | | | | | PAD District III | trict III | | | | | | (affine |
| Other Other Eastern Hemisphere Subtotal Other | 487 | 0 04 | 835 2,547 | 0 6 | 0 (s) | 00 | 00 | 1.55 | 0 95 | 0,0 | 52 (| 849 | 1,336 | 4 |
| Total imports | 59,825 | 802 | 2,818 | 181 | (s) | 0 | 0 | 357 | 3,463 | 151 | 2,150 | 4,531 9,922 | 38,886 | 1,254 |
| | | | | | | | PAD District IV | trict IV | | | | | | |
| Other Canada | 1,629 1,629 | 468 468 | 00 | 00 | 00 | 00 | 00 | * • | 00 | - | 8 | 529 | 2,158 | 02 |
| Total Imports | 1,629 | 468 | 0 | .0 | 0 0 | 0 0 | 0 0 | - +- | 0 0 | | 8 8 | 529 529 | 2,158 | 5 6 |
| f | | | | | | | PAD District V | trict V | | | | | | |
| Other OPEC Indonesia | 5,187 | c | c | ٥ | | | | | | | | | | |
| Venezuela Subtotal Other OPEC | 308 5,495 | 00 | 000 | 000 | \$ 0 £ | 000 | 000 | 8°; | 40 | 00 | 00 | 8 0 | 5,491 | 171 |
| Other | | | | • | , | • | > | 8 | 4 | 0 | 0 | 304 | 5,799 | 187 |
| Brunei Canada | 0 0 | 0 9 | 0 | 0 | 43 | 0 | 0 | 24 | c | c | ć | { | į | |
| Mexico | g G | 1 0 | 0 0 | 92 ° | 0 | 0 | 0 | 0 | 9 | <u>.</u> | ે (ક્ | 50.4 |) o | r4 ç |
| Netherlands Antilles | 0 | 0 | 9 0 | o c | 0 0 | 0 0 | 0 (| ω (| 0 | 0 | | 13 | § 5 | ر (ه) |
| People's Republic of China | 295 | 0 | 0 | 0 | 1 035 | 5 C | > c | Ö 1 | 326 | 0 | 0 | 326 | 326 | ; ‡ |
| Other Eastern Hemisphere | 0 | 0 | 0 | 0 | 5.5 | o c | - | , 100 | 0 | 0 | 0 | 1,042 | 1,337 | 43 |
| Subtotal Other | 784 | 446 | 0 | Se | 1,148 | 0 | 0 | 273 | 380 | 0 5 | ଅ ନ | 714 | 714 | 8 |
| Total Imports | 6,279 | 446 | o | 58 | 1,388 | 0 | 0 | 333 | 720 | 2 9 | 5 8 | 2,003 | 3,447 | 11 |
| 1 Includes crude oil imported for | d for others | 10 | | | | | | | 3 | 2 | ţ | 7°20/ | 3,246 | 298 |

includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Includes aviation gasoline, waxes, asphalt, lubricants, natural gasoline, isopentane, plant condensate, naphthas less than 400 degrees F and miscellaneous products.
 Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 22. Exports of Crude Oil and Petroleum Products by PAD District, October 1982 (Thousands of Barrels)

| | | Petroleum / | Petroleum Administration for Defense Districts | n for Defens | e Districts | |
|--|-----|-------------|--|--------------|-------------|--------|
| Commodify | - | = | III | N | ^ | Total |
| Crude Oil (including lease condensate) 1 | 0 | 2,505 | 0 | 0 | 5,879 | 8,384 |
| Liquefied Petroleum Gases and Ethane | 55 | 1,414 | 915 | ٥ | 141 | 2,526 |
| Ethane | (s) | ٥ | (8) | 0 | 0 | · (g) |
| Propane | 18 | 567 | 532 | 0 | 22 | 1,174 |
| Butane | 37 | 847 | 384 | 0 | 8 | 1,352 |
| Butane-Propane Mixtures | 0 | 0 | 0 | 0 | 0 | 0 |
| Finished Motor Gasoline | 8 | 48 | 396 | 0 | 7 | 452 |
| Naphtha-Type Jet Fuel | (s) | 0 | 0 | 0 | (s) | (s) |
| Kerosene-Type Jet Fuel | 0 | 0 | 0 | 0 | 35 | 35 |
| Kerosene | (s) | 0 | (s) | 0 | (s) | - |
| Distillate Fuel Oil | - | 0 | 851 | 0 | 1,191 | 2,042 |
| Residual Fuel Oil | (s) | 0 | 4,984 | 0 | 2,265 | 7,249 |
| Naphtha < 400 Deg. for Petrochem. Feedstock | 28 | ო | 32 | , | 2 | 95 |
| Other Oils > 400 Deg. for Petrochem. Feedstock | - | 27 | 843 | 0 | - | 873 |
| Special Naphthas | ო | • | 06 | 0 | 67 | 96 |
| Lubricants | 226 | 17 | 270 | - | 49 | 563 |
| Wax | 7 | (s) | 80 | 0 | 8 | 18 |
| Petroleum Coke | 200 | 263 | 3,078 | 0 | 2,680 | 6,520 |
| Asphalt | ۵ | - | ત | ۲- | 8 | 13 |
| Miscellaneous Products | 12 | (s) | 9 | (s) | 2 | 23 |
| Total Product Exports | 872 | 1,775 | 11,474 | 8 | 6,384 | 20,507 |
| Total Exports | 872 | 4,279 | 11,474 | 8 | 12,263 | 28,890 |
| | | | | | | |

Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Canada in exchange on a barrel-forbarrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territories are U.S. possessions.
 Less than 500 barrels.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 23. Exports of Crude Oil and Petroleum Products by Destination, October 1982 (Thousands of Barrels)

| Magazine Destination | Crude Oil 1 | LPG and Ethane | Finished Motor Gasoline | Jet Fuei | Oist. Oil de | Residual Fuel Oji | Special Naphthas | Lubri- cants | Wax | Petro- leum Coke | Asphalt | Other | Fotal | Total (Daily Average) |
|--|---|----------------|----------------------|-------------------------------|---------------|-----------------|-------------------------|---------------------|-------------------|----------|------------------------|---------------|----------------|-------------|-----------------------------|
| 1 2 2 3 3 3 3 3 3 3 3 | Argentina | 0 | Ο. | 0 | | 0 | 0 | 0 | 12 | (§) | 0 | | (5) | 5 | (\$) |
| 1 | | 00 | , <u>,-</u> - | 0 0 | | 9 0 | 370 | 00 | 2 6 | _ | 117 | Ø 3 | | 123 | ₹ ; |
| 12 12 12 12 12 12 12 12 | | 00 | 8 | 0 | · | 0 | 0 | | © | | 00 | <u> </u> | _ | 426 | (5) |
| 19 19 19 19 19 19 19 19 | ייי כי דריאפוווסטחומ | - - | 149 | 00 | 0 0 | 0 6 | 00 | | 82 | | 212 | (e) | | 243 | |
| Table Tabl | noo. | 00 | , O | 0 | > 0 | > c | O (* | | ছ গু | 00 | 00 | | *** (| 144 | |
| 1985 | Canada | 2,505 | 1,432 | 48 | 0 | 0 | 30. | | 20 | | 277 | | ე ჭე | 3.4.675 | (s) |
| Color Colo | aiwan | > c | o (| 0 0 | 0 | 0 (| 188 | | - | | (s) | | - | 190 | |
| No. of the control | Colombia | 00 | y (§) | - • | 0 | 0 | О С | @ <u>@</u> | 5 4 | (S) | (s) | | - (| 5 | (s) |
| State Stat | Costa Rica | 0 | 12 | 0 | 0 | 0 | 0 | E (S | 0 40 | <u> </u> | 5 C | | | υţ | (s) |
| Second Color Seco | Dominican Republic | 00 | | 00 | 0 (| 0 (| 0 | |) (s) | (S) | 109 | 0 | | 110 | - 4 |
| Section Color Co | Ecuador | 0 | 32 0 | | o | - C | 0 0 | 00 | <u>©</u> (| Ø 3 | 0 (| 0 | (s) | , | (s) |
| Second Color Seco | Egypt | 0 | 0 | ,0 | 0 | 0 | 0 | > 0 | <u> </u> | | 0 0 | 00 | , 5 | 88 | ო ვ |
| Pacific isl | | 0 | | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | ê (S | ر (و | (s) (s) |
| Practite ist 984 559 9 9 1730 214 1836 Practite ist 0 | France | 0 0 | 0 (| 0 (| φ. | ٥ | 0 | Q | (2) | 0 | 0 | _ | (S) | (S) | <u> </u> |
| State Stat | Pacific Isl | o c | ກີ | 5 C | 00 | 88 84 84 | 239 | en e | Ø 3 | - | 730 | | 214 | 1,936 | . 62 |
| State Stat | | 0 | 0 0 | 0 | 0 | 8 = | <u>n</u> ⊂ | - | D & | ۵ د | O ဖွ | | 0 0 | 387 | 12 |
| Secondary Seco | *************************************** | 0 | 7 | 0 | 0 | 0 | 0 | 0 | F | 0 | 9 = | > c | | 9 6 | - 9 |
| State Stat | Guinea | 0 0 | | 0 | 0 | 0 | 0 | 0 | ťΩ | N | (s) | 0 | (S) | · ~ | (S) |
| 10 10 10 10 10 10 10 10 | Honduras | > 0 | |) (| 0 0 | 00 | 0 0 | 0 (| - 1 | | 0 | 0 | - | - | (s) |
| 10 (5) (5) (7) | Hong Kong | 0 | | 0 | 0 | 9 0 | > C | | ~ 0 | | 0 | | (s) | ۷ ر | (s) |
| 1 | ĺ | 0 | | 0 | 0 | 0 | 0 | | ۷ ۳- | | 0 | િ (કે | | N tc | 9 (S |
| Second Color Seco | Indonesta | 0 | | 0 | 0 | (s) | 0 | | 15 | (8) | 0 | (s) | - (| | - |
| Section Sect | Israel | > c | 0 0 | 0 0 | φ. | 0 0 | 0 | | (s) | | 0 | | 0 | | (s) |
| 1 | | 0 | 87 | 0 | 0 | 0 | 289 | | r- ₁ - | ତ ହ | 0 6 | 00 | (s) | | (s) |
| 1 | | 0 | 0 | 0 | 0 | Φ | 9 0 | | (S) | | ્રે હ | | 9 0 | | 2¢ (s) |
| Section Sect | Jamaica | 0 0 | (s) | 0 | 0 | 0 | 0 | | <u>(8</u> | 0 | | (S) | | | (S) |
| Republic of | Jordan | > C | 4 0 | > c | 0 0 | 8 0 | 4 4 6 | ~ 0 | g ' | 01 6 | 1,538 | | 3 | | 20 |
| n 0 | Sic of | 0 |) | 0 | 0 | 8 | 229 | o c | | | > <u>F</u> | 9 r | (S) | | (s) |
| 1 | Kuwait | 0 | 0 | 0 | 0 | 0 | 0 | 0 | · 61 | | 0 | 0 | · | 8 4 | : (S) |
| a 0 (s) 0 (s) 0 (s) 0 (s) 0 (s) 1 0 0 (s) 1 0 | 1 | o c | 00 | 0 0 | 0 (| 0 | 0 (| 0 | - | 0 | 0 | 0 | 0 | - | (s) |
| mods mode 324 350 36 0 234 3 33 (s) 14 0 (s) 1 95 (s) 1 262 2376 33 3 3 3 1 1 95 835 2 2376 3 3 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 4 3 3 4 3 3 4 3 3 4 3 4 3 4 3 4 4 3 4 4 4 4 4 | Malaysia | 0 | 0 | - | > c | > c | a c | o c | <u>ه</u> | 0 0 | 0 0 | 00 | | (s) | (s) |
| ands Antiles 0 132 0 20 1,455 3 17 (s) 725 (s) 24 2,376 ands Antilles 0 1 0 15 818 0 1 0< | Mexico | 0 | 324 | 320 | 36 | 0 | , \$ <u>5</u> | n | - ee | | , <u>4</u> | > C | £ | - 60 - 4 | (9) |
| And Armiles | Netherlands | 0 | 132 | 0 | 0 | 8 | 1,455 | က | 17 | (S) | 725 | | - 54 | 2.376 | 2 12 |
| 1 262 262 263 264 265 | | 0 (| - 3 | 0 | 0 | τ | 818 | 0 | - | 0 | 0 | 0 | 0 | 835 | 27 |
| Control Cont | Nicaragua | > C | (S) (S) | 00 | 0 | 165 | 0 0 | 0 0 | (| (s) | 92 | | - | 262 | 80 |
| frust Terr. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 131 0 1 131 0 0 1 131 0 0 1 131 0 0 1 131 0 | Nigeria | 0 | (S) | o c | 0 | o c | - | - | ⊃ ° | ے د | > 0 | 0 6 | | <u>ક</u> | <u>©</u> |
| frust Terr. 0 0 0 0 0 0 1 (s) 0 1 (s) 1 (s) 1 (s) 1 (s) 1 (s) 1 524 ies | Norway | 0 | 0 | , o | ۰ ۵ | , o | , 0 | , 0 | _ | ء و | 130 | > C | <u>s</u> | , £ | (s) |
| | Pacific Trust Terr. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (S) | 0 | 9 0 | ·- | (S) | 5 - | ŧ (§) |
| les | Рапата Рап | 00 | 0 | 00 | 0 0 | 90 | 431 | (s) | | (g) | 0 | 0 | (<u>s</u>) | 524 | 11 |
| | Philippines | , 0 | - 2 | > 0 |) 0 | > 0 | > C | ⊃ છ | - α | જ દ | 00 | 00 | | α 6 | © (|
| | | | | , | , | • |) | Ξ | • | 2 | > | 5 | - | 20 | (<u>s)</u> |

Table 23, Exports of Crude Oil and Petroleum Products by Destination, October 1982 (Thousands of Barrels)

| (conmuned) | | | | ľ | ľ | | | | | | | | | |
|---|----------------|----------------------|-------------------------------|-------------|---------------|-------------------------|---------------------|-----------------|-----|------------------------|---------|-------------|--------|-----------------------------|
| Destination | Crude Oil 1 | LPG and Ethane | Finished Motor Gasoline | Jet Fuel | Dist. Fuel | Residual Fuel Oil | Special Naphthas | Lubri- cants | Wax | Petro- leum Coke | Asphalt | Other | Total | Total (Daily Average) |
| Puerto Rico | 2,016 | 11 | ٥ | 0 | (8) | 489 | 59 | 12 | | 0 | (£) | တ | 2,598 | æ |
| Rep. of South Africa | 0 | 0 | 0 | 0 | 0 | 0 | (§) | - | 2 | 0 | (s) | - | 2 | (s) |
| Saudi Arabia | 0 | - | 0 | 0 | (8) | 0 | (s) | 21 | 0 | 0 | | 2 | 56 | |
| Singapore | 0 | 2 | 0 | 0 | 0 | 631 | <u>(e)</u> | က | (s) | 0 | (s) | (s) | 637 | 2 |
| Spain | 0 | 0 | 0 | 0 | 443 | 0 | 0 | (s) | (8) | 1,490 | | | 1,935 | 9 |
| Surinam | Q | 0 | 0 | 0 | 0 | 0 | 0 | (S) | 0 | 9 | 0 | (s) | 10 | (s) |
| Sweden | 0 | 97 | 0 | 0 | 431 | 0 | 0 | 8 | (s) | 8 | 0 | 57 | 668 | Ø |
| Switzerland | 0 | 8 | 0 | 0 | 262 | 0 | (s) | - | (s) | ٥ | 0 | (s) | 264 | |
| Thailand | 0 | 0 | 0 | 0 | Φ | 0 | (s) | က | 0 | 0 | 0 | (s) | m | (s) |
| Trinidad and Tobago | 0 | (s) | 0 | 0 | 0 | (s) | 10 | 14 | (s) | 0 | 0 | (s) | 24 | - |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o | 0 | 0 | 0 | _ |
| United Arab Emirates | 0 | (s) | 0 | 0 | 0 | 0 | O | (s) | 0 | 0 | 0 | (s) | - | (s) |
| United Kingdom | 0 | က | 0 | 0 | (s) | 220 | 0 | 98 | (S) | 15 | 0 | (s) | 460 | ÷ |
| USSR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 0 | 8 | 0 | 14 | 153 | |
| *************************************** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 0 | 0 | | (s) | (s) | (s) |
| Venezuela | 0 | ო | (s) | 0 | 0 | 0 | (s) | - | - | 78 | | | 86 | ო |
| Virgin Islands | 3,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 3,300 | ō |
| West Germany | 0 | ٥ | 0 | 0 | 0 | 0 | 0 | - | - | 69 | 0 | | 170 | |
| Yugoslavia | 0 | 0 | 0 | 0 | o | 0 | 0 | | 0 | 33 | | | 40 | |
| Other | 563 | 157 | (s) | ٥ | 0 | (s) | (s) | | (S) | 0 | | | 731 | Ò |
| Total | 8.384 | 2.526 | 452 | 36 | 2.042 | 7.249 | 9 | | ď | 6.520 | | | 28 890 | 8 |

Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Canada in exchange, on a barrel-for-barrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territories are U.S. possessions.
 Less than 500 barrels or less than 500 barrels per day.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, October 31, 1982 (Thousands of Barrels)

| National Commodity | East Coast | PAD District Appala- chian | Total | Appala- chian #2 | Ind., | Minn., Wisc., | Okla., Kans., | Total | Texas | Texas | | | New | Total | PAD Dist. IV Rocky | PAD Dist. V West | United |
|--|---|-------------------------------|----------------------------|---|------------------------|---|---------------------------------------|----------------------------|--|------------------------|--------------------------------|---------------------------------------|---------------------------------------|-----------------|--|-------------------------------------|--------------------------------------|--|
| | ndens 35 erve² | 1111 | 1111 | 15,391 2,875 61 0 | # 1 1 1 1 | 1111 | | | 14,439 58,143 1,579 | 1111 | 1 1 1 | Coast | 7 | 1111 | 47,394 93,649 17,096 284,592 | Mt. 1,555 8,836 1,402 0 | Coast 25,509 32,172 1,824 0 | 104,288 195,675 21,962 |
| | | 42,650 133,178 26,504 | | 18,327 45,958 140,225 29,092 | | 43,548 40,144 12,703 | 5,562 3,635 3,696 | 20,879 12,073 16,750 | 74,161 74,161 71,002 64,758 34,631 | 9,869 5,696 | 81,735 36,054 8 494 | 48,764 7,741 | 5,450 | 918 | 0 442,731 147,104 54,743 | 0 11,793 11,696 2,837 | 28,777 88,282 62,393 20,226 | 28,777 635,294 338,153 282,789 |
| 12 16 22 16 22 14 745 787 531 2.686 524 21 43 3815 531 | Natural Gas Processing Plant Total Natural Gasoline and Isopentane Refinery Pipeline Natural Gas Processing Plant | 493 202,825 6 0 6 | | 1,249 216,524 6 0 | | | 231 18,124 72 22 | • | 19,589 189,980 173 255 | | 23,459 149,742 266 65 | 6,463 10,423 75,417 127 0 | 13,834 4,085 28,103 0 144 | | 39,967 44,789 286,603 445 575 | 2,548 306 17,387 1 | 4,389 940 87,948 30 30 | 110,627 66,873 798,442 655 |
| Color Colo | g Plant | , <u>5</u> 000 | o 0 0 0 | 38 000 | 20 000 | 82 87 101 101 | 41 80 0 0 0 0 | 1,041 | 787 1,215 89 1,727 | 531 853 0 262 | 2,696 3,027 28 879 | 524 651 28 116 | 15.50 0.5 | 139 0 341 | 3,815 4,835 56 1,600 | 51 237 28 | , 400 0 0 0 | 4,699 6,374 6,374 3,357 |
| Color Colo | | 0000 | 9000 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , ,,,,, | -0-0 | v 000c | | | 262 11 864 35 | 907 57 305 35 | 4 0 8 0 9 | o 5 | 170 171 | 1,656 165 1,246 86 | 28 0 0 12 | N 000 | 3,502 1,246 102 |
| Feedstock Use 55 0 55 0 107 0 1 108 0 8 434 0 0 442 0 56 0 55 0 107 0 1 108 0 8 434 0 0 442 0 57 2 509 3 1,091 21 230 1,345 103 684 845 7 5 1,644 191 58 1,446 2,302 59 1,248 469 1,912 3,688 613 79 243 546 152 1,633 115 443 733 1,176 0 1,918 205 11,254 5,303 3,795 270 18,473 171 2,446 2,181 4,627 62 5,176 765 13,932 19,935 3,771 20,031 6,446 4,751 427 35,426 518 | | 00000 | 00000 | 00000 | 00000 | 9 95 24 128 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 550 350 350 350 | 9 114 830 374 | 0 0 178 193 | 397 281 1,089 1,609 | 0 108 296 | . 000- | <u>π</u> οοπο | 1,497 281 1,089 364 2,099 | | 0 0000 | 290 1,203 1,194 2,473 |
| 507 2 509 3 1,091 21 230 1,345 103 684 845 7 5 1,644 191 | Propane for Petrochemical Feedstock Use Refinery | | 00 | 55 | 00 | 107 | 00 | | 108 | 00 | # & & | 434 44 | - 00 | " 00 | 3,833 442 442 | | 000 | 5,160 605 605 |
| | 1 1 1 | | | 509 640 2,302 1,176 4,627 | | 1,091 919 1,248 1,918 5,176 | J | | | | | 845 55 243 5,303 6,446 | 7 403 546 3,795 4,751 | | 1,644 13,676 1,633 18,473 35,426 | 191 41 115 171 518 | 195 0 379 574 | 3,884 15,882 7,738 33,576 61,080 |

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, October 31, 1982 (Thousands of Barrels) (continued)

| | PA | PAD District | | | P _A | PAD District II | = | | | | PAD District II | trict !!! | | | PAN | PAD | |
|--|--|---------------------------------|--|---------------------------|--|------------------------------|---|--|-------------------------------------|---|--|---------------------------------|------------------------------|--|---|---|---|
| Commodity | East Coast | Appala- chian #1 | Total | Appala- chian #2 | Ind., II., Ky. | Minn. Wisc., Daks. | Okła., Kans., Mo. | Total | Texas | Gulf Godst | Guif Coast | F | New Mexico | Total | 1 | Dist. V West | United States |
| Butane for Petro. Feed. Use Refinery | | 0 | | 00 | 00 | 55 | 00 | 25 25 | 00 | 88 | 00 | ოო | 00 | 88 | 00 | 4 4 | 50 |
| Butane for Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total | 216 33 23 591 | 0 0 9 4 001 | 216 319 129 27 691 | 296 0 0 296 | 281 463 987 58 1,789 | 52 0 0 61 | 240 70 372 1,305 1,987 | 869 533 1,359 1,373 4,134 | 144 150 954 1,191 2,439 | 542 4,049 39 4,809 9,439 | 1,322 0 5 2,885 4,212 | 3 100 99 202 | 3 0 101 191 | 2,014 4,199 1,185 9,085 16,483 | 113 0 135 41 289 | 587 0 0 501 1,088 | 3,799 5,051 2,808 11,027 22,685 |
| Butane-Propane Mixtures for Petro. Feed. Use RefineryTotal | Use | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| Butane-Propane Mixtures for Other Uses Refinery Bulk Terminal | 00000 | 00000 | 00000 | 00000 | 198 0 3 201 | 00000 | 0 15 68 84 | 0 199 15 71 285 | 0 635 21 657 | 9 12 13 13 | 18 0 10 (s) 28 | 00000 | £ 0 - 0 £ | 43 1 670 26 740 | (§) | 328 0 0 5 333 | 372 200 685 102 1,359 |
| Ethane-Propane Mixtures Bulk Terminal | 0000 | 0000 | 0000 | 0000 | ဝမ္တဝမ္တ | 0000 | 6 455 853 1,314 | 6 521 853 1,380 | 327 601 244 1,172 | 1,250 85 3,972 5,307 | 0000 | 0000 | 0 294 386 | 1,577 780 4,510 6,867 | 0 0 501 501 | 0000 | 1,583 1,406 5,363 8,352 |
| Isobutane Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total | 00000 | 8t 0 0 0 £ £ | 8t 0 0 9 45 | £000£ | 80 70 563 82 795 | 100-4 | 164 29 117 936 1,246 | 286 99 680 1,019 2,084 | 96 141 219 190 646 | 168 1,905 31 2,191 4,295 | 526 0 0 1,291 1,817 | 11 0 100 62 67 | 6 0 57 93 156 | 807 2,046 407 3,827 7,087 | 28 2 2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 85 0 0 84 84 | 1,174 2,145 1,130 4,882 9,331 |
| Other Hydrocarbons and Alcohol Refinery Total | 00 | 6t 6t | 6 0 | 00 | 8 8 | 00 | 00 | 20 | ** *** | 70 70 | 46 46 | 00 | 00 | 117 | 00 | ດເວ | 191 |
| Unfinished Oils Refinery Naphthas and Lighter | 3,159 1,886 7,189 1,669 13,903 | 415 8 448 243 1,114 | 3,574 1,894 7,637 1,912 15,017 | 55 0 88 3 146 | 2,691 2,253 5,700 3,133 13,777 | 146 8 349 45 548 | 1,216 1,022 2,120 1,489 5,847 | 4,108 3,283 8,257 4,670 20,318 | 1,154 547 874 338 2,913 | 5,986 6,987 12,738 4,216 29,927 | 4,453 1,285 6,727 2,939 15,404 | 182 25 800 44 1,051 | 133 11 151 0 295 | 11,908 8,855 21,290 7,537 49,590 | 464 396 1,563 425 2,848 | 5,070 4,382 10,909 5,204 25,565 | 25,124 18,810 49,656 19,748 113,338 |

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, October 31, 1982 (Thousands of Barrels) (continued)

| | ď | PAD District | | | PA | PAD District | = | | | | PAD District III | trict III | | | CVO | OVO | |
|--|---|-----------------------------------|---|-----------------------------------|---|---------------------------------------|----------------------------------|---|---------------------------------------|---------------------------------------|--|--------------------------------|---|---|------------------------------|----------------------------------|--------------------------------------|
| Commodity | East Coast | Appala- chian #1 | Total | Appala- chian #2 | Ind., III., Ky. | Minn., Wisc., Daks. | Okta., Kans., Mo. | Total | Texas | Gulf Coast | d Sugar | - | New | Total | Pocky | Dist. V West | United States |
| Motor Gasoline Blending Components Refinery Bulk Terminal | 4,245 | £ 0 | 4,326 | 92 9 | 5,768 | 589 | 1,875 | 8,258 | 1,497 | 9,853 | 7,317 | 106 | 112 | 18,885 | . 7 | 8,143 | 41,260 |
| Pipeline Total | 4,480 | 81 | 4,561 | 3200 | 17 5,916 | 2 2 593 | 2,063 2,063 | 105 105 8,604 | 6 1,632 | 0 0 888 | 0 7,317 | 0 0 0 | 0 0 5 | 175 6 19.066 | 0 0 1 648 | 236 0 8.379 | 887 111 42 258 |
| Aviation Gasoline Blending Components Refinery | 4 4 | 0 0 | 4 4 | 00 | 140 | 00 | 8 8 | 142 142 | 14 4 | 2.2 | <u> </u> | 00 | 00 | 193 | 00 | 888 | 377 |
| Total Finished Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total Finished Motor Gasoline | 5,824 34,941 14,100 18 54,883 | 270 3,083 729 0 4,082 | 6,094 38,024 14,829 18 58,965 | 102 1,949 752 0 2,803 | 6,254 18,214 6,437 0 30,905 | 1,384 4,092 1,182 0 6,658 | 4,536 5,857 7,644 0 | 12,276 30,112 16,015 0 58,403 | 2,016 2,429 1,720 0 6,165 | 9,819 5,178 5,154 0 0 | 6,169 1,844 4,806 0 12,819 | 839 2,788 7,219 0 | 231 347 175 0 | 19,074 12,586 19,074 0 50,734 | 1,866 1,776 1,152 0 | 7,081 9,574 2,544 0 | 46,391 92,072 53,614 18 |
| Finished Leaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total | 2,474 16,264 6,780 18 25,536 | 168 1,500 373 0 2,041 | 2,642 17,764 7,153 18 27,577 | 52 991 364 0 | 2,883 8,719 3,031 0 | 838 2,374 654 0 3,866 | 2,514 3,616 4,317 0 | 6,287 15,700 8,366 0 30,353 | 1,075 1,234 847 0 3,156 | 4,681 3,101 2,175 0 9,957 | 2,933 848 1,704 0 5,485 | 685 1,386 3,610 0 | 201 201 00 00 404 | 9,487 6,770 8,426 0 | 1,168 955 751 0 | 3,118 4,882 1,257 0 | 22,702 46,071 25,953 18 |
| Finished Unleaded Motor Gasoline Refinery Bulk Terminal Pipeline Total | 3,350 18,675 7,320 29,345 | 102 1,583 356 2,041 | 3,452 20,258 7,676 31,386 | 50 958 388 1,396 | 3,371 9,456 3,406 16,233 | 546 1,718 527 2,791 | 2,022 2,238 3,327 7,587 | 5,989 14,370 7,648 28,007 | 941 1,195 873 3,009 | 5,138 2,077 2,979 10,194 | 3,236 996 3,102 7,334 | 154 1,402 3,609 5,165 | 118 146 85 349 | 9,587 5,816 10,648 26,051 | 697 821 401 1,919 | 3,959 4,692 1,287 9,938 | 23,684 45,957 27,660 97,301 |
| Gasohol Refinery Bulk Terminal Pipeline | 0000 | 0000 | 0000 | 0000 | 0 8 0 8 | 00 | 0 m 0 m | 0 4 + 64 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | -00- | 4004 | 5 4 4 6 5 0 5 0 5 |
| Finished Aviation Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total | 17 285 5 0 307 | 0 2 0 0 6 | 17 304 5 0 326 | 00000 | 92 220 13 0 | 00000 | 45 67 0 153 | 133 316 58 0 0 | 17 36 20 54 127 | 373 5 1 0 379 | 115 7 0 0 122 | 0 0 0 0 0 | 0 | 505 117 21 54 697 | 35 0 0 0 57 | 224 401 0 0 625 | 914 1,160 84 54 2,212 |
| Naphtha-Type Jet Fuel Refinery Bulk Terminal Pipeline Total | 161 7 315 483 | % to 4 | 195 17 315 527 | 0 19 24 | 451 105 9 565 | 50 51 27 128 | 329 132 117 578 | 830 307 158 1,295 | 329 139 604 | 1,052 85 0 1,137 | 422 0 72 494 | 173 46 78 297 | 197 0 305 502 | 2,173 270 591 3,034 | 208 3 88 299 | 834 54 347 1,235 | 4,240 651 1,499 6,390 |
| See footnotes at end of table. | | | | | | | | | | | | | | | | | |

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, October 31, 1982 (Thousands of Barrels) (continued)

| | PA | PAD Dietrict 1 | | | PAG | DAD Dietrice II | | | | | OAC Dispose III | 111 | | | 0,00 | 40 | |
|---|---|-----------------------------------|---|----------------------------------|---|---------------------------------------|---|---|-----------------------------------|---|---------------------------------------|---------------------------------------|-----------------------------|---|-----------------------------------|--|---------------------------------------|
| Commodity | East | Appala- chian #1 | Fotal | Appala- chian #2 | Ind. | Minn, Wisc., Daks. | Okla, Kans, Mo. | Total | Texas | Texas Gulf Coast | Guff Gast | | New Mexico | Total | Dist. IV Rocky Mt | Dist. V West Coast | United States |
| Kerosene-Type Jet Fuel Refinery Bulk Terminal Pipeline | 1,076 5,337 2,822 9,235 | 0 185 114 299 | 1,076 5,522 2,936 9,534 | 8 2 8 8 | 1,180 2,870 474 4,524 | 88 126 44 44 | 173 612 1,114 1,899 | 1,469 3,806 1,797 7,072 | 294 204 813 1.311 | 2,733 1,655 951 5,339 | 2,795 52 864 3,711 | 50 1,347 1,398 | 78 27 4 | 5,847 1,988 4,001 11,836 | 357 117 135 609 | 3,038 1,858 549 5,445 | 11,787 13,291 9,418 34,496 |
| Kerosene Refinery Bulk Terminal Pipeline Natural Gas Processing Plant | 338 3,239 572 0 4,149 | 50 241 13 304 | 388 3,480 585 0 4,453 | 256 58 58 314 | 850 1,296 141 0 2,287 | 4 gs o o 60 | ឨ & & c ¥ | 1,054 1,634 267 0 2,955 | 58 4 4 7 2 2 9 | 713 473 57 57 1,243 | 586 29 378 0 | 25 21 22 122 123 | 33 | 1,418 532 621 3 2,574 | 27 22 0 0 0 8 | 140 59 0 0 | 3,012 5,732 1,473 3 |
| Total Distillate Fuel Oils Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total Distillate Fuel Oil | 8,781 56,000 7,801 0 72,582 | 362 2,594 190 0 3,146 | 9,143 58,594 7,991 0 75,728 | 76 1,264 525 0 1,865 | 8,043 12,661 2,605 0 23,309 | 1,855 3,639 1,182 0 6,676 | 4,380 3,543 4,482 12,406 | 14,354 21,107 8,794 1 1 44,256 | 1,020 1,510 1,005 1,3536 | 10,869 4,977 1,597 0 17,443 | 5,540 1,760 1,918 0 9,218 | 1,209 1,161 4,113 0 6,483 | 187 92 59 0 338 | 18,825 9,500 8,692 1 37,018 | 2,111 848 590 0 3,549 | 4,244 4,465 927 0 9,636 | 48,677 94,514 26,994 170,187 |
| Dist. Fuel Oils Less No. 4 Fuel Oil Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total | 8,781 54,666 7,801 0 71,248 | 353 2,593 190 0 3,136 | 9,134 57,259 7,991 0 74,384 | 76 1,252 525 0 1,853 | 8,006 12,607 2,605 0 23,218 | 1,855 3,560 1,182 0 6,597 | 4,380 3,543 4,482 12,406 | 14,317 20,962 8,794 1 44,074 | 966 1,491 1,005 3,463 | 10,443 4,977 1,597 0 17,017 | 5,291 1,747 1,918 0 8,956 | 1,154 1,160 4,113 0 6,427 | 159 92 59 0 310 | 18,013 9,467 8,692 1 36,173 | 2,110 848 590 0 3,548 | 4,197 4,437 927 0 0 9,561 | 47,771 92,973 26,994 167,740 |
| No. 4 Fuel Oil Refinery Bulk Terminal | 0 1,334 1,334 | e + 6 | 9 1,335 1,344 | 0 0 0 | 37 54 91 | 0 67 | 000 | 37 145 182 | 25 E | 426 0 426 | 249 13 262 | 8. ± δ. | 28 0 28 28 | 812 33 845 | -0- | 47 28 75 | 906 1,541 2,447 |
| Residual Fuel Oils Refinery | 3,211 29,050 0 32,261 | 86 427 0 513 | 3,297 29,477 0 32,774 | 73 198 0 271 | 1,870 1,472 0 3,342 | 311 153 0 464 | 722 077 099 | 2,481 2,593 0 5,074 | 374 342 0 716 | 5,309 2,246 1 7,556 | 3,122 3,569 0 6,691 | 486 58 0 544 | 90 0 92 | 9,367 6,215 1 15,583 | 545 0 545 | 7,054 2,527 17 9,598 | 22,744 40,812 18 63,574 |
| Naphtha < 400 Deg. Petro. Feedstock Refinery | 66 66 | 00 | 666 | 00 | 72 | 00 | 61 | 133 133 | 131 | 883 833 | 306 | 99 | 00 | 1,326 1,326 | 00 | 252 252 | 018,1 |
| Other Oils > 400 Deg. Petro. Feedstock Refinery | ოო | 00 | ოო | 00 | 14 14 14 | 00 | | 178 178 | <u>₹</u> | 1,153 | 88 | 88 | • • | 1,596 1,596 | 00 | 429 429 | 2,206 |
| Special Naphthas Refinery Bulk Terninal Natural Gas Processing Plant Total | 192 792 0 984 | 28 28 66 66 | 230 820 0 1,050 | ဝဆီဝဆီ | 214 148 0 | 0 0 0 0 | 20° 0° 40° 0° 40° 40° 40° 40° 40° 40° 40° | 205 0 0 623 | 47 124 171 | 1,302 120 0 0 | 87 0 0 87 | 27 27 0 155 | 0000 | 1,564 147 124 1,835 | 5005 | 242 42 0 0 84 | 2,464 1,214 124 3,802 |
| Con frontnetes at each of table | | | | | | | | | | . | | | | | | | |

See footnotes at end of table.

Table 24. Stocks of Crude Oil and Petroleum Products by PAD District, October 31, 1982 (Thousands of Barrels) (continued)

| | VO | DAD District | | | PAC | PAD District | _ | | | | PAD District III | ict III | | | L- | PAD | |
|------------------------------------|-------|------------------------|---------|------------------------|-------------------|--------------------|-------------------------|---|-----------------|------------------------|----------------------|-----------|---------------|--------------|-----------------|-------------------------|--------------------------|
| Commodity | East | Appala- chian #1 | Total | Appala- chian #2 | Ind., III. Ky. | Minn., Wisc., I | Okla., Kans., Mo. | Total | Texas Inland | Texas Gulf Coast | La. Gulf Coast | ; | New Mexico | Total | Pist. IV Mt. | Dist V West Coast | United |
| Lubricants | | | 1 | | | | | | | | | | | | | | |
| Bright Stock | 49 | 417 | 466 | 0 | 49 | 0 | 47 | 96 | 0 | 224 | 73 | ٥١ | 0 | 297 | n (| 40 | 904 |
| Neutral | 396 | 401 | 797 | 0 | 482 | 0 | 452 | 934 | 0 9 | 1,799 | 1,001 | | 0 0 | 2,885 | à° | 2 2 2 | 2,000 |
| Other | 640 | 162 | 805 | 0 4 | 156 | 0 \$ | 126 | 282 | 5 5 | 771,2 | 241 | 2 8 | ۰ د | 362 | ი | 736 | 2,664 |
| Bulk Terminals | 1,918 | 1,179 | 3,097 | ច ស | 1,142 | <u> </u> | 672 | 843 | 2 22 | 4,221 | 1,529 | 345 | 10 | 6,147 | 83 | 1,474 | 12,644 |
| Wax, Microcrystalline | 4 | 4 | 48 | 0 | 0 | 0 | 1. | = | 28 | 52 | 10 | 8 | 0 | 65 | ٥ | 0 | 124 |
| Total | 4 | 4 | 48 | 0 | 0 | 0 | 11 | ======================================= | 28 | 52 | 10 | N | 0 | 65 | 0 | 0 | 124 |
| Wax, Crystalline—Fully Refined | œ | 4 | 20 | 0 | ន | 0 | 24 | 47 | 0 | 80 | 150 | 0 | 0 | 239 | 4 | 36 | 376 |
| Total | ο α | 4 | 20 | 0 | 83 | ٥ | 54 | 47 | 0 | 89 | 150 | 0 | 0 | 239 | 4 | 36 | 376 |
| Wax, Crystalline-Other | Œ | 73 | 42 | 0 | ~ | 0 | Ŋ | ø | 0 | 140 | 0 | 0 | 0 | 140 | 0 | 61 | 244 |
| Total | φ | 73 | 73 | 0 | - | 0 | ເດ | 9 | 0 | 140 | 0 | 0 | 0 | 1 | 0 | 0 | 244 |
| Petroleum Coke Refinery | 926 | 0 | 926 | 0 | 719 | 9/ | 883 | 1,788 | 0 | 131 | 470 | 201 | 0 0 | 802 | 661 | 1,665 | 5,842 |
| Total | 926 | | 926 | 0 | 719 | 16 | 893 | 1,788 | 0 | เรา | 4/0 | 5 | > | 902 | 5 | C00'- | ato's |
| Asphait Befinery | 1,688 | 4 | 1.732 | 206 | 1,509 | 484 | 2 | 2,820 | 430 | 524 | 1,078 | 729 | 98 | 2,847 | 973 | 1,194 | 9,566 |
| Bulk Terminal | 3,122 | (4 (7) | 1,695 | 87 293 | 847 2,356 | 255 719 | 88 22 | 1,411 | 430 | 0 524 | 1,250 | 96 795 | 98 | 3,085 | 973 | 1,411 | 3,561 13,127 |
| Road Oil | (| • | (| C | 8 | ć | c | Ş | c | c | c | ^ | ٥ | ¢. | ო | 27 | 25 |
| Refinery Total | 50 | 00 | 00 | 00 | 88 | 0 | 00 | 88 | 0 | 0 | 0 | 2 1 | 0 | 8 | ო | 27 | 25 |
| Miscellaneous Products | Š | | 9 | • | ř | 2 | ç | Ę | r, | Š | 226 | 85 | 0 | 870 | - | 246 | 1,563 |
| Helinery | 8 | | £ & | - 0 | <u> </u> | 2 00 | 3 M | 4 | 90 | 0 | 12 | 5 | 0 | 52 | 0 | 57 | 167 |
| Pipeline | 0 | | | 0 | 0 (| 0 0 | | 0 (| 45 | 8 ty | 0 - | 0 8 | | 1 086 | - c | 0 | 1.091 |
| Natural Gas Processing Plant Total | 980 | 5.0 | | - | . S | o ñ | (s) 15 | , 2 | 137 | 1,457 | 239 | 192 | (S) | 2,025 | N | 303 | 2,865 |
| | | | | | | | : | 364 141 | I | ١ | ١ | l | 1 | 729.334 | 29.180 | 176,230 | 29.180 176.230 1,433,736 |
| Total Stocks, All Oils | 1 | 1 | 234,851 | l | ı | 1 | | 11.12 | | | | | 1 | | | | |

Crude oil data are not collected by refinery district.
 Includes 34055 thousands of barrels of domestic crude oil.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable.

Table 25. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, October 1982 (Thousands of Barrels)

| | ". | From I to | | | From II to | t S | *************************************** | | From III to | t to | | Ē | From IV to | | ш | From V to | |
|---------------------------------------|-------|-----------|---|-------|------------|----------|---|--------|-------------|------|-------|-------|------------|------------|-------|-----------|--------|
| Commodity | | = | - | _ | = | 2 | > | _ | = | 2 | ^ | = | ш | > | - | = | = |
| Crude Oil | 0 | 21 | 0 | 0 | 0 | 0 | ٥ | 406 | 1,252 | 0 | 0 | 0 | 0 | 0 | 3,291 | 0 | 18,132 |
| Petroleum Products | 7.949 | 381 | 0 | 3.141 | 6.643 | 2,530 | 0 | 87,399 | 28,455 | 0 | 2,044 | 1,340 | 78 | 363 | 0 | 0 | 385 |
| Natural Gasoline and Isonentane | 0 | 0 | 0 | 0 | 353 | 0 | 0 | 0 | 839 | 0 | 0 | 385 | 14 | 0 | 0 | 0 | 0 |
| Unfractionated Stream | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o | O | 0 |
| Plant Condensate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liquefied Petroleum Gases | 0 | 35 | 0 | 926 | 2,083 | 147 | 0 | 1,600 | 7,764 | 0 | 0 | 134 | 8 | 0 | 0 | 0 | 0 |
| Unfinished Oils | 7 | 212 | 0 | 0 | 0 | ပ | 0 | 1,473 | 4 | 0 | 0 | 0 | Φ | 0 | 0 | 0 | 326 |
| Motor Gasoline Blending Components | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 727 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aviation Gasoline Blending Components | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ٥ |
| Finished Motor Gasoline | 5.733 | 0 | 0 | 1,512 | 1,981 | 1,614 | 0 | 48,327 | 12,820 | ٥ | 912 | 476 | 0 | 649 | 0 | 0 | 0 |
| Finished Leaded Motor Gasoline | 3.283 | 0 | 0 | 9/9 | 1,203 | 880 | 0 | 21,389 | 6,398 | 0 | 268 | 302 | 0 | 479 | 0 | 0 | 0 |
| Finished Unleaded Motor Gasoline | 2,450 | 0 | 0 | 836 | 778 | 734 | 0 | 26,938 | 6,422 | 0 | 344 | 171 | 0 | 170 | 0 | 0 | 0 |
| Gasohol | 0 | 0 | 0 | 0 | O | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o | 0 | 0 | 0 |
| Finished Aviation Gasoline | 13 | 0 | 0 | ٥ | 0 | 14 | 0 | 174 | 140 | 0 | 4 | 0 | 0 | ٥ | 0 | 0 | 0 |
| Naphtha-Type Jet Fuel | 8 | 0 | 0 | 8 | 5 | 0 | 0 | 438 | 23 | 0 | 87 | Ξ | 0 | 46 | 0 | 0 | 0 |
| Kerosene-Type Jet Fuel | 263 | 0 | 0 | 155 | 100 | 83 12 | 0 | 7,902 | 1,511 | 0 | 188 | က | 0 | 36 | 0 | 0 | 0 |
| | 94 | Ф | 0 | 0 | 0 | 0 | 0 | 788 | 131 | 0 | 0 | 0 | 0 | Ф | 0 | 0 | 0 |
| ਨ ਨ | 1,678 | 0 | 0 | 151 | 1,008 | 124 | 0 | 21,781 | 3,196 | 0 | 425 | 334 | 0 | 232 | 0 | 0 | 0 |
| Distillate Fuel Oil Less No. 4 | 1,678 | 0 | 0 | 151 | 8 | 124 | 0 | 21,431 | 3,196 | 0 | 425 | 334 | ٥ | 232 | 0 | 0 | 0 |
| No. 4 Fuel Oil | 0 | 0 | 0 | 0 | 177 | 0 | 0 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Residual Fuel Oil | 0 | 101 | 0 | 5 | 995 | 0 | 0 | 3,175 | 287 | 0 | 373 | 0 | 0 | 0 | 0 | 0 | 0 |
| Naphtha and Other Oils for Petro. | | | | | | | | | | | | | | | | | |
| Feedstock | 62 | 0 | ٥ | 43 | 34 | 0 | 0 | 53 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Special Naphthas | o | 0 | 0 | 17 | 0 | 0 | 0 | 269 | 106 | 0 | 0 | 0 | ٥ | 0 | 0 | 0 | 0 |
| Lubricants | 0 | 15 | 0 | 65 | 38 | 0 | 0 | 754 | 279 | 0 | 19 | 0 | ٥ | 0 | 0 | 0 | 53 |
| Wax | 0 | 5 | 0 | თ | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asphalt and Road Oil | 0 | 0 | 0 | 110 | 0 | 0 | 0 | 233 | 382 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miscellaneous Products | ٥ | ∞ | 0 | 8 | 0 | 0 | 0 | 436 | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total All Products | 7,949 | 402 | 0 | 3,141 | 6,643 | 2,530 | 0 | 87,805 | 29,707 | 0 | 2,044 | 1,340 | 78 | 963 | 3,291 | 0 | 18,517 |
| | | | | | | | | | | | | | | | | | |

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 26. Movements of Petroleum Products by Pipeline Between PAD Districts, October 1982 (Thousands of Barrels)

| Commodify | From 1 to | T. | From II to | | | From III to | ≡ | | u. | From IV to | |
|---------------------------------------|--------------|-------|------------|-------|--------|-------------|----------|-------|-------|------------|-----|
| | 11 | - | | 2 | - | = | ≥ | > | = | 3 | > |
| Natural Gasoline and Isopentane | 0 | 0 | 353 | 0 | 0 | 83 | 0 | 0 | 382 | 4 | 0 |
| Unfractionated Stream | 0 | 0 | 0 | 0 | 0 | 0 | ٥ | ٥ | 0 | 0 | 0 |
| Plant Condensate | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 |
| Liquefied Petroleum Gases | 0 | 926 | 2083 | 147 | 1,421 | 7,764 | 0 | 0 | 134 | Z | 0 |
| Motor Gasoline Blending Components | 0 | 0 | 0 | 0 | ٥ | 727 | 0 | 0 | 0 | 0 | 0 |
| Aviation Gasoline Blending Components | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finished Motor Gasoline | 4,335 | 1,270 | 1,978 | 1,614 | 39,499 | 11,833 | 0 | 912 | 476 | 0 | 649 |
| Finished Leaded Motor Gasoline | 2,555 | 510 | 1,200 | 880 | 17,294 | 5,912 | 0 | 288 | 305 | 0 | 479 |
| Finished Unleaded Motor Gasoline | 1,780 | 260 | 778 | ğ | 22,205 | 5,921 | 0 | 344 | 171 | 0 | 170 |
| Gasohol | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finished Aviation Gasoline | 13 | 0 | 0 | 7 | 8 | 505 | 0 | ٥ | 0 | 0 | 0 |
| Naphtha-Type Jet Fuel | 0 | 0 | 51 | 0 | 199 | _ | ٥ | 87 | Ξ | 0 | 46 |
| Kerosene-Type Jet Fuel | 181 | 102 | 5 | 83 | 5,547 | 986 | 0 | 188 | က | 0 | 98 |
| Kerosene | 57 | 0 | 0 | 0 | 737 | 131 | 0 | 0 | 0 | 0 | 0 |
| Distillate Fuel Oil | 1,107 | 132 | 쫎 | 124 | 17,817 | 2,442 | 0 | 425 | 334 | 0 | 232 |
| Distillate Fuel Oil Less No. 4 | 1,107 | 132 | 831 | 124 | 17,817 | 2,442 | ¢ | 425 | 88 | 0 | 232 |
| No. 4 Fivel Oil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Residual Fixel Oil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miscellaneous Products | 0 | 8 | 0 | ٥ | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| Total | 5,693 | 2,550 | 5,396 | 2,530 | 65,259 | 24,884 | 0 | 1,612 | 1,340 | 28 | 963 |
| | | | | | | | | | | | |

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 27. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, October 1982 (Thousands of Barrels)

| | | From i to | | ш | From II to | | | | From III to | II to | | | 11. | From V to | |
|---|-------|-----------|---|-----|------------|---|--------|------------|-------------|--------|-----------------|--------------|-------|-----------|--------|
| Commodity | = | = | > | | = | > | | New Eng | Cent | Low | = | > | - | = | = |
| Crude Oil | ٥ | 23 | 0 | 0 | 0 | 0 | 406 | 0 | 406 | 0 | 1,252 | 0 | 3,291 | 0 | 18,132 |
| Petroleum Products | 2.256 | 381 | 0 | 591 | 1,247 | 0 | 22,140 | 2,335 | 5,529 | 14,276 | 3,571 | 432 | 0 | 0 | 385 |
| Liquefied Petroleum Gases | 0 | 32 | 0 | 0 | 0 | ٥ | 179 | 0 | 0 | 179 | 0 | 0 | 0 | 0 | 0 |
| Unfinished Oils | 7 | 212 | 0 | 0 | 0 | 0 | 1,473 | 0 | 1,431 | 45 | ₽ | 0 | 0 | 0 | 326 |
| Finished Motor Gasoline | 1,398 | 0 | 0 | 242 | က | 0 | 8,828 | 783 | 557 | 7,488 | 887 | 0 | 0 | 0 | 0 |
| Finished Aviation Gasoline | • | 0 | 0 | 0 | 0 | 0 | 135 | 23 | 5 | 103 | 35 | 4 | 0 | 0 | Đ |
| Naphtha-Type Jet Fuel | 66 | 0 | 0 | 20 | 0 | 0 | 239 | 7 | 0 | 232 | 28 | 0 | 0 | 0 | 0 |
| Kerosene-Type Jet Fuel | 82 | 0 | 0 | S | 0 | 0 | 2,355 | 193 | 616 | 1,546 | 53 | 0 | 0 | 0 | 0 |
| Kerosene | 37 | 0 | 0 | 0 | ٥ | 0 | 57 | 0 | 88 | ន | 0 | 0 | 0 | 0 | 0 |
| Distillate Fuel Oil | 571 | 0 | 0 | 19 | 171 | 0 | 3,964 | 610 | 1,199 | 2,155 | 754 | 0 | 0 | 0 | 0 |
| Residual Fuel Oil | 0 | 101 | 0 | 13 | 995 | 0 | 3,175 | 88 | 230 | 1,901 | 287 | 373 | 0 | 0 | o |
| Naphtha and Other Oils for Petro, Feed, Use | 8 | 0 | 0 | \$ | 젊 | 0 | ଷ | 0 | ଷ | ත | 42 | 0 | 0 | 0 | 0 |
| Special Naphthas | 0 | 0 | 0 | 17 | 0 | 0 | 569 | 32 | 167 | 20 | 1 98 | Φ | 0 | ٥ | 0 |
| Lubricants | 0 | 15 | 0 | 88 | 88 | 0 | 754 | 0 | 83 | ន្ត | 279 | 1 | 0 | ٥ | 23 |
| Wax | 0 | 5 | 0 | 0 | 0 | 0 | ଷ | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| Asphalt and Road Oil | 0 | 0 | 0 | 110 | 0 | 0 | 88 | 0 | 00 | 225 | 385 | 0 | 0 | 0 | 0 |
| Miscellaneous Products | 0 | 8 | 0 | 0 | 0 | 0 | 436 | 4 | 372 | 8 | 29 | 0 | 0 | 0 | 0 |
| Total | 2,256 | 402 | 0 | 591 | 1,247 | 0 | 22,546 | 2,335 | 5,935 | 14,276 | 4,823 | 432 | 3,291 | 0 | 18,517 |

Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 28. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, October 1982 (Thousands of Barrels)

| , | | P.A.D. District | | a. | P.A.D. District II | _ | ď. | P.A.D. District III | = | a. | P.A.D. District IV | > | <u>a</u> 2 | P.A.D. District V | |
|---|--|-----------------------------|---------------------------|-----------------------------|------------------------|----------------------------|------------------------------|-------------------------|-----------------------------|-----------------------------|------------------------------|----------------------------|----------------------------|-----------------------------|---------------------------|
| Annocurio Contraction | Receipts into PADD 1 | Shipments from PADD I | Net Receipts PADD I | Receipts into PADD II | Shipments from PADD II | Net Receipts PADD II | Receipts into PADD III | Shipments from PADD III | Net Receipts PADD III | Receipts into PADD IV | Shipments from PADD IV | Net Receipts PADD IV | Receipts into PADD V | Shipments from PADD V | Net Receipts PADD V |
| Crude Oil | 3,697 | 21 | 3,676 | 1,252 | 0 | 1,252 | 18,153 | 1,658 | 16,495 | 0 | 0 | 0 | 0 | 21 423 | -21 423 |
| Petroleum Products | . 90,540 | 8,330 | 82,210 | 37,744 | 12,314 | 25,430 | 7,487 | 117,898 | -110.411 | 2.530 | 2381 | 140 | 3 002 | 300 | 65.6 |
| Unfractionated Stream | | o c | 00 | <u></u> | 323 | 898 | 367 | 839 | -472 | 0 | 396 | 965- | 0 | g 0 | 7,044 0 |
| Plant Condensate | | 0 | 0 | - C | 0 | - | - | O 7 | o + | 0 0 | 0 (| 0 (| 0 | 0 | 0 |
| Lighted Petroleum Gases | 2,556 | 35 | 2,521 | 7,898 | 3,186 | 4,712 | 2.182 | 9.364 | -7 182 | 147 | , 0 6 | ٠ ټ | 0 | 0 9 | 0 0 |
| Motor Gasoline Ricording Composition | 1,473 | 219 | 1,254 | 47 | 0 | 47 | 268 | 1,513 | -945 | <u>.</u> | <u> </u> | 7 0 | . | 356 | 1356 |
| Aviation Gasoline Blending Components | | > C | 00 | 727 | 0 (| 727 | 0 | 727 | -727 | 0 | 0 | 0 | 0 | } • | } 0 |
| Finished Motor Gasoline | 49.839 | 5 733 | 44 106 | 10000 | C T | 0 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finished Leaded Motor Gasoline | | 3283 | 18.782 | 9,023 | 2,107 | 13,922 | 1,981 | 62,059 | -60,078 | 1,614 | 1,125 | 489 | 1,561 | 0 | 1,561 |
| Finished Unleaded Motor Gasofine | | 2,450 | 25,324 | 9.043 | 2348 | , S | | 28,355 | -27,152 | 880 | 784 | 96 | 1,047 | 0 | 1,047 |
| Gasobol | | 0 | 0 | 0 | 0 | 0 | | , , | -32,320 | 45 | 74, | 393 | 514 | 0 | 514 |
| Nanhtha-Tune for Civil | 174 | 13 | 161 | 153 | 4 | 139 | 0 | 354 | 35. | > 1 | - |) | - | 00 | 0 (|
| Kerosene-Twoe Jet Fixel | . 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. | 5 E | 359 | 2 | F } | 86 | 51 | 584 | -533 | 0 | 22 | -22 | 5 5 | o c | 5 5 |
| Kerosene | 788 | 3 3 | , 7 20, 7 | 1,1,1 | 988 | 891 | 100 | 9,601 | -9,501 | 83. | 88 | 592 | 22 | 0 | 224 |
| Distillate Fuel Oil | 21.932 | 1.678 | 20.02 | 3 8 | 1 282 | 020 | 0 00 , | 919 | -919 | 0 | 0 | 0 | 0 | 0 | 0 |
| Distillate Fuel Oil Less No. 4 | . 21,582 | 1,678 | 19,904 | 5.208 | 50,1 | 3,323 | 95.5 | 25,402 | -24,394 | 124 | 566 | 442 | 657 | o | 657 |
| No. 4 Fuel Oil | 320 | 0 | 350 | 0 | 171 | -177 | 4.5 | 350 | 1221 | 124 | 266 | 445 | 657 | 0 | 657 |
| Naphtha and Other Oils for Petro | 3,188 | 5 | 3,087 | 287 | 1,008 | -721 | 1,096 | 3,835 | -2,739 | 0 | 00 | - 0 | 373 | 00 | 0 2 |
| Feedstock Use | . 72 | 82 | 0 | \$ | 4 | 27 | 25 | 7. | 20 | c | • | | | , | 5 |
| Special respincies | 588 | 0 ! | 286 | 106 | 17 | 89 | ; 0 | 375 | -375 | c | > c | 5 6 | 0 0 | 0 (| 0 |
| Wax | - 873 | 15 | 804 | 279 | 103 | 176 | 85 | 1,052 | -970 | c | 0 0 | o c | - | - 6 | ې د |
| Asobalt and Boad Oil | 3 5 | ဥ (| 19 | 0 | 6 | σį | 10 | 8 | -10 | 0 | 0 | o c | <u>n</u> c | <i>3</i> c | 2 0 |
| Miscellaneous Products | | ه د | 343 | 385 | 110 | 275 | 0 | 618 | -618 | 0 | 0 | o 0 | o c | 0 0 | > c |
| *************************************** | 250 | 0 | 910 | 82 | 8 | æ | ω | 564 | -556 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total All Products | 94,237 | 8,351 | 85,886 | 38,996 | 12,314 | 26,682 | 25,640 | 119,556 | -93,916 | 2.530 | 2.381 | 140 | 3 007 | 21 800 | 000 |
| Motor Tate! | | | | | | | | | | | | 2 | 3 | | 10001 |

Note: Total may not equal sum of components due to independent rounding.
Sources: See Explanatory Notes on Data Collection and Estimation.

Table 29. Production of No.4 Fuel Oil and Residual Fuel Oil By Sulfur Content, October 1982 (Thousands of Barrels)

| | PA | PAD District | | | PA | PAD District | 11 | | | | PAD District III | trict III | | | PAD | PAD | |
|---------------------------|-------------------------------|------------------------|-------|------------------------|--------------------|---------------------------|------------------------|-------|-----------------|------------------------|------------------|------------------|---------------|--------|-----|--------------------------|----------|
| Commodity | East Appaia- Coast chian T | Appala- chian #1 | otal | Appala- chian #2 | Ind., III., Ky. | Minn., Wisc., Daks. | Okla. Kans., Mo. | Total | Texas Inland | Texas Gulf Coast | Coast | No. La., Ark. | New Mexico | Total | | Dist, V West Coast | United |
| | | | | | | | | | | | | | | | | | |
| No. 4 Fuel Oil | 0 | - | • | - | 18 | 0 | 0 | 19 | 8 | 303 | 117 | 99 | 194 | 714 | 83 | 115 | 872 |
| 00 to 0.30% Sulfur | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 303 | S | 2 | 0 | 310 | ٥ | 0 | 311 |
| 0.31 to 0.50% Sulfur | 0 | 0 | 0 | 0 | KO | 0 | 0 | 2 | 19 | 0 | 0 | 0 | 0 | 5 | ន | ကု | 4 |
| 0.51 to 1,00% Sulfur | 0 | 0 | 0 | - | ភ | 0 | 0 | ம | 0 | 0 | 0 | က | 194 | 197 | 0 | 34 | 237 |
| 1.01 to 2.00% Sulfur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 5 | 0 | 4 | <u>გ</u> |
| Greater Than 2.00% Sulfur | 0 | 0 | 0 | 0 | ∞ | 0 | 0 | 60 | 0 | 0 | 112 | 61 | 0 | 173 | 0 | 80 | 261 |
| Residual Fuel Oil | 3,019 | 92 | 3,075 | 124 | 1,198 | 328 | 484 | 2,134 | 602 | 7,846 | 5,580 | 542 | 85 | 14,655 | 477 | 9,242 | 29,583 |
| 0.00 to 0.30% Sulfur | 21 | 28 | 49 | 0 | 12 | ဖ | 0 | 18 | 2 | 120 | 8 | 124 | 7 | 355 | 8 | 303 | 759 |
| 0.31 to 0.50% Sulfur | 666 | 0 | 666 | 0 | 24 | 0 | 103 | 127 | Ţ | 370 | 27 | 159 | O. | 267 | 131 | 1,165 | 2,989 |
| 0.51 to 1.00% Suffur | 1,57 | 0 | 1,571 | 124 | 435 | 0 | 88 | 768 | 454 | 1,574 | 1,007 | 186 | ĸ | 3,196 | B | 1,955 | 7,554 |
| 1.01 to 2.00% Sulfur | 8 | 28 | 292 | 0 | 597 | 186 | 146 | 929 | 8 | 818 | 613 | 7 | 17 | 1.54 | 99 | 5,325 | 8,153 |
| Greater Than 200% Sulfur | <u>2</u> | 0 | 164 | 0 | 130 | 136 | 56 | 292 | 2 | 4,964 | 3,907 | 8 | 42 | 966'8 | 182 | 494 | 10,128 |
| | | | | | | | | | | | | | | | | | |

Note: Total may not equal sum of components due to independent rounding. Source: See Explanation Notes on Data Collection and Estimation.

Table 30. Stocks of No.4 Fuel Oil and Residual Fuel Oil By Suifur Content, October 1982 (Thousands of Barrels)

| | PA | PAD District | 1 | | PA | PAD District II | t 11 | | | | PAD District III | hirt III | | - | CVG | 040 | |
|--|---|------------------------|----------------|---------------------------|--------------------|-------------------------|----------------|---------------|------------|----------------|------------------|----------|---------------|---------------|-----------------|--------------|------------------|
| Commodity | Coast | Appala- chian #1 | Total | Appala- chian #2 | Ind., III., Ky. | Minn. Wisc. Daks. | Okla, Kans, | Total | Texas | Gulf Godst | a ge g | - | New Mexico | Total | Post IV | West V | United States |
| No. 4 Fuel Oil - 0.00 to 0.30% Suffur | | | | | | | | | | | | - | | | | 1000 | |
| Refinery Bulk Terminal | O 8 | on c | o 5 | 00 | - 0 | 00 | 0 0 | ۳ (| 0 | 134 | 31 | ო | 0 | 168 | 0 | 0 | 178 |
| Total | 2 2 2 2 | 9 09 | 469 | 00 | 0 | 9 6 | 0 | > ~ | 0 | o 45 | ۵ ج | r- 4 | 00 | 1.69 | 00 | o c | 461 |
| No.4 Fuel Oil - 0.31 to 0.50% Sulfur Reference | (| (| • | • | | | | | | | | | | | | 1 | } |
| Bulk Terminal | 37 | 00 | 37 | 00 | on c | o c | 00 | o c | 5 0 | 00 | - ç | 0 (| 0 | Ξ: | - | - | 22 |
| Total | 37 | 0 | 37 | 0 | 9 07 | 0 | 0 | o on | 5 5 | 00 | <u> </u> | 0 | 00 | 24 | o - | o - | 22 |
| No. 4 Fuel Oil – 0.51 to 1.00% Suffur Refinery | d | (| (| ı | | | | | | | | | | | | • | |
| Bulk Terminal Total | 415 | 200 | 415 | 000 | ₽ % | 0 62 | 00 | 133 133 | ဇ္တ ဝ | 292 | 8 ° | 0 0 | 80 | 383 | 00 | 7 | 416 |
| | Ì | > | <u>4</u> 0 | 5 | 8 | 62 | 0 | 149 | 39 | 292 | ผ | 8 | 8 | 383 | 0 | 1, | \$ \$ |
| No. 4 Fuel Oil - 1.01 to 2.00% Sulfur Refinery | , | c | • | (| • | , | | | | | | | | | | | |
| Bulk Terminal | 345 | | 342 | 00 | 00 | 00 | 00 | 00 | ro c | 00 | 00 | 0 (| 0 | လ | 0 | s, | 10 |
| , and a second s | 345 | 0 | 345 | 0 | 0 | 0 | ٥ | 0 | ດ | 0 | 0 | 0 | 0 0 | O 11 | 00 | 88 | 373 |
| No.4 Fuel Oil Greater Than 2.00% Suffur Refinery | | | | | | | | | | | • |) | • | י | > | 3 | , S |
| Bulk Terminal | 40 | ۰ - | 0 82 | 0 5 | Ες | 00 | 0 (| Ξ: | ٥ | 0 | 195 | 20 | ٥ | 245 | 0 | 24 | 080 |
| i otal | 4 | Ψ. | 78 | 5 52 | . = | 0 | 0 | 2 8 | <u>0</u> 0 | 00 | 195 | 0 0 | 0 0 | 19 | 00 | 0 | 109 |
| Residual Fuel Oil - 0.00 to 0.30% Sulfur | | | | | | | | | ! | , | } | 3 | > | <u>6</u> | 0 | 7 | 389 |
| | 191 | 53 | 220 | 0 | - | 6 | ဖ | 16 | 116 | | 5 | œ | ţ | 6 | į | | |
| Total | 5,801 | - g | 5,610 5,830 | 00 | 8 8 | 00 | 0 (| 52 5 | 0 | | 1,576 | 7 | <u>-</u> 0 | 3/2 1,583 |) 0 | 999 0 | 1,284 7,218 |
| Residual Fuel Oil 0.31 to 0.50% Sulfur | | | | | | 1 |) | F | 2 | 2 | 1,02/ | 8 | 17 | 1,955 | 107 | 269 | 8,502 |
| RefineryBulk Terminal | 742 | က | 745 | 0 | 80 | 0 | 7 | 87 | 7 | 631 | 5 | 100 | ć | 6 | i | | |
| Total | 2,231 | 0 m | 2,231 2,976 | 00 | 241 | 00 | 0 1 | 241 | 10 | ? ? | 50 | g 0 ; | 0 | n ⊖ | g 0 | 925 0 | 2,658 2.472 |
| Residual Fuel Oil - 0.51 to 1.00% Sulfur | | | | | | • | • | 220 | • | 3 | <u></u> | 180 | 0 | 849 | 25 | 925 | 5,130 |
| Refinery Bulk Terminal | 1,024 | 0 | 1,024 | 73 | 920 | 0 | 80 | 1.073 | | 1 489 | 088 | 5 | | į | ; | | |
| Total | 7,386 8,410 | 157 | 7,543 8,567 | 2 2 | 627 1,547 | ოო | 138 218 | 876 | 88 2 | 612 | 8 6 8 | 20 | 10 | 791 791 | \$ 0 | 1,481 502 | 6,363 9,712 |
| Residual Fuel Oil - 1.01 to 2.00% Sulfur | | | | | |) | 9 | Ì | | 70. | Op Res | 172 | | 3,536 | 9 | | 16,075 |
| Refinery | 498 | 49 | 547 | 0 | 431 | 121 | | 999 | 51 | | 527 | ď | | 700 | | 9 | |
| Total | 4,103 | ¥ 88 | 3,852 4,399 | S 8 | 878 | 65 186 | 420 536 | 1,022 | 0 + | 373 | 619 | 001 | . 0 | 992 | g 0 | 3,126 | 5,380 7,241 |
| Residual Fuel Oil - Greater than 2.00% Sulfur | 'n | | | | | | | 2 | 5 | | 5 | n | - | 976, | | 1,501 | 12,621 |
| Helinery Bulk Terminal | 756 10 218 | , , | 761 | o c | 438 | 181 | 81 | | | | 624 | | | 417 | 504 | | 6 |
| | 10,974 | | 11,002 | 0 | 570 | 88 266 | 230 | 429 1.066 | 254 | 1,261 1, | 1,283 | 51 | 0. | 2,849 | 0 | 650 | 7,039 14,169 |
| Residual Fuel Oil - Sulfur Content Not Specified | iffed | | | | | | | | | | à | | | | 291 | | 21,228 |
| PipelineTotal | 0 | 0 | 0 | 0 | 0 | .0 | C | c | c | • | • | • | | | | | |
| 1014 | 0 | 0 | ٥ | 0 | 0 | . 0 | 0 | 0 | - 0 | - - | 00 | 00 | 0 | , | 0 | 17 | 18 |
| Note: Total may not equal sum of components due to indenen | uts due to | | dent rounding | , coip | | | | | , | | , | > | . | - | 0 | 17 | 18 |

Table 31. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, October 1982 (Thousands of Barrels)

| | | | ď | Residual Fuel Oil | 75 | | |
|---|------------|------------------|------------------|-------------------|--------------------------|------------------|---------------|
| Country | 0.00 to | 0.31 to 0.50% | 0,51 to 1.00% | 1.01 to 2.00% | Greater Than 2.00% | Not Specified | Total |
| Arab OPEC | 0000 | 3 | , | <u>;</u> | ļ ! | | |
| Izao | 508,4 | 4 28 4 | > c | 0 0 | 0 (| 0 (| 3,401 |
| Kuwait | 0 | 0 | 00 | c | o c | > C | > c |
| Libya | 0 | 0 | 0 | 0 | 0 | 0 | ۵۵ |
| Oatar | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saudi Arabia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| United Arab Emirates Subtotal Arab OPEC | 0 606 | 490 | 00 | 00 | 00 | 0 0 | 0 |
| Sign September | | 36 | • | • | > | 3 | 3,401 |
| | c | c | c | 07.0 | c | ć | 040 |
| Gabon | 0 | 0 | ٥٥ | 5 0 | 0 0 | 0 | ? ? |
| Indonesia | 0 | 0 | 0 | 4 | 0 | 0 | 4 |
| Iran | 0 | 0 | ٥ | 0 | 0 | 0 | 0 |
| Nigeria | (s) | 0 | 0 | 0 | 0 | 0 | 9 |
| Subtotal Other OPEC | 1,315 | 00 | 570 | 727 | 3,935 | 0 0 | 6,548 |
| Other | 2 | • | 5 | | 900 | • | 436,0 |
| Angola | 0 | 271 | Q | 0 | C | c | 27.1 |
| Australia | 0 | 0 | 0 | 0 | 0 | 0 | Ö |
| Bahamas | 307 | 0 | 0 | 199 | 492 | 0 | 866 |
| Bolivia | 0 | 0 | O | 0 | 0 | 0 | 0 |
| Brazil | 0 | 0 | 338 | 0 | 0 | 0 | 338 |
| Brunel | 0 (| 0 (| 0 | ٥ | 0 ! | 0 | 0 |
| Conso | 200 | Z C | 490 | 8 | ن د | 0 0 | 789 |
| made | 0 0 | > C | o c | - | - | ÷ c | > c |
| France | 0 | 0 | c | | 0 0 | o c | 0 0 |
| Ghana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liberia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Malaysia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mexico | 0 | 0 | 0 | 0 | 349 | 0 | 349 |
| Netherlands | 0 (| 212 | 0 (| 0 (| 195 | 0 (| 407 |
| Nousay | - | 9 0 | . | 2 0 | 3,652 | - | 3,702 |
| Oman | 0 0 | 0 0 | o c | • | 0 0 | 0 0 | 0 |
| People's Republic of China | 0 | 0 | 0 | 0 | 0 | • • | 0 |
| Реп. | 0 | 0 | 258 | 0 | 0 | 0 | 528 |
| Puerto Rico | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Romania | 0 (| 0 (| 0 | 0 | 0 | 0 | 0 |
| Spain | - | 0 | 0 0 | 0 (| 0 (| 0 (| ٥ |
| Oylid Trinidad | o c | 0 | o c | 200 | 0 00 | - | - ç |
| Timicia | o c | o c | o c | n c | 3 5 | | 20 |
| United Kingdom | o c | o c | 243 | o c | 0 0 | 0 0 | 243 |
| Virgin Islands | 0 | 0 | 200 | 748 | 666 | 0 | 2.447 |
| Yugoslavía | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zaire | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Western | | • | | | | | |
| Hemisphere | 8 N | 0 | 837 | 347 | 0 | 0 | 1,414 |
| Other Eastern Hemisphere | - 064 | 55.5 | 2,42 | 114 | 0 2 | 0 0 | 1,353 |
| | 3 | 70. | 50.0 | 060, | ton's | > | 3 |
| Total Imports | 4,864 | 1,564 | 4,180 | 3,002 | 668'6 | 0 | 23,508 |
| | | | | | | | - |

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 32. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, October 1982 (Thousands of Barrels)

| | | | # | Residual Fuel Oil | ō | | |
|-------------------|------------------|------------------|------------------|-------------------|--------------------------|------------------|----------|
| State | 0.00 to 0.30% | 0.31 to 0.50% | 0.51 to 1.00% | 1.01 to 2.00% | Greater Than 2.00% | Not Specified | Total |
| PAD District I | 4,162 | 807 | 4,025 | 2,479 | 7,535 | 0 | 19.009 |
| Connecticut | 262 | 0 | 0 | 0 | 108 | 0 | 370 |
| Florida | 0 | 0 | 0 | 154 | 1,494 | 0 | 1.648 |
| Maine | 0 | 95 | 180 | 155 | 756 | 0 | 1,184 |
| Maryland | 0 | 0 | 962 | 302 | 517 | 0 | 1,781 |
| Massachusetts | 0 | ٥ | 0 | ٥ | 1,234 | 0 | 1,234 |
| New Jersey | 200 | 127 | 902 | 267 | 1,322 | 0 | 3,418 |
| New York | 3,312 | 375 | 1,663 | 1,167 | 1,020 | 0 | 7,537 |
| Pennsylvania | 0 | 212 | 95 | 135 | 420 | 0 | 862 |
| Rhode Island | 0 | 0 | 222 | 0 | 0 | 0 | 222 |
| South Carolina | G | 0 | 0 | 0 | 100 | 0 | 106 |
| Virginia | 8 | ٥ | 0 | 0 | 565 | 0 | 648 |
| PAD District II | 92 | 0 | 155 | 55 | ŧ | 0 | 316 |
| Illinois | 92 | 0 | 124 | 0 | 0 | 0 | 216 |
| Michigan | 0 | 0 | 31 | 0 | 0 | 0 | 31 |
| North Dakota | 0 | 0 | 0 | 22 | 15 | 0 | 69 |
| PAD District III | 599 | 492 | 0 | 349 | 2,023 | 0 | 3,463 |
| Louisiana | 248 | 0 | ۵ | 349 | 1,719 | 0 | 2,316 |
| Texas | 351 | 492 | 0 | 0 | 304 | 0 | 1,147 |
| PAD District IV | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PAD District V | = | 265 | c | 118 | 306 | c | 730 |
| California | 0 | C | c | - | 306 | | 326 |
| Hawaii | , | 265 | 0 | 118 | 9 | • • | 200 |
| Washington | σı | 0 | 0 | 0 | 0 | 0 | 6 |
| All PAD Districts | 4,864 | 1,564 | 4,180 | 3,002 | 9,899 | 0 | 23,508 |

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Glossary

Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group, CH-(CH)n-OH. "Alcohol" includes ethanol and methanol.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor is 5.5 42-gallon barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline (Finished). All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D 910 and Military Specification MIL-G-5572.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt, and wax to barrels are given in the definitions for these products.

Butane. A normally gaseous paraffinic hydrocarbon, C_4H_{10} . It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1885 and Gas Processors Association Specification for commercial butane.

- Normal Butane—A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. This classification includes mixtures of gases that contain 80 percent or more normal butane.
- Other Butanes—All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform to ASTM Specification D1835 and Gas Processors Specification for commercial butane-propane. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C₄H₈, recovered from refinery processes. It is reported in the "Butane" category.

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite which conform to ASTM Specification D 388.

Crude Oil (including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Lease condensate is included. Drips are also included, but topped crude (residual) oil and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign, according to the following:

- Domestic—Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331. Hydrocarbons such as shale oil and tar sand oil are included.
- Foreign—Crude oil produced outside the United States. Imported Athabasca hydrocarbons are included.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on- and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1 and No. 2 heating oils, No. 1 and No. 2 diesel fuel oils, and No. 4 fuel oil.

- No. 1 Fuel Oil—A light distillate fuel oil intended for vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400° F. at the 10-percent point and 550° F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100° F.
- No. 2 Fuel Oil—A distillate fuel oil for domestic heating for use in atomizing-type burners or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade temperatures at the 90-percent point between 540° and 640° F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100° F.
- No. 1 and No. 2 Diesel Fuel Oils—Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D 975:
 - 1. No. 1-D—A volatile distillate fuel oil in the 400° to 550° F. boiling range for engines in service requiring frequent speed and load changes. Type C-B diesel fuel, which is used for city buses and similar operations, is included.
 - 2. No. 2-D—A distillate fuel oil of lower volatility in the 540° to 640° F. boiling range for engines in industrial and heavy mobile service. Type R-R diesel fuel for railroad compression-ignition engines and Type T-T for diesel-engine trucks are included.
- No. 4 Fuel Oil—A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100° F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D 975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa, and Australia. The Hawaiian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic hydrocarbon, C₂H₆, extracted from natural gas and refinery gas streams. "Ethane" includes any product containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted for natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, C_2H_4 , recovered from refinery and petrochemical processes. It is reported in the "Ethane" category.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Gas Well Gas. Natural gas produced from gas wells. Such gas may be either associated gas or non-associated gas.

- \bullet Associated Gas—Free natural gas in immediate contact, but not in solution, with crude oil in the reservoir.
- Non-Associated Gas-Free natural gas not in contact with, nor dissolved in, crude oil in the reservoir.

Imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. "Imported crude oil burned as fuel" includes lease condensate and liquid hydrocarbons produced from tar sand oil, gilsonite, and oil shale.

Isobutane. A saturated branch-chain isomer of butane. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. This classification includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Isopentane. A saturated branch-chain hydrocarbon, C₅H₁₂, obtained by fractionation of natural gasoline or isomerization of normal pentane.

Kerosene. A petroleum distillate that boils at a temperature between 300° and 550° F., that has a flash point higher than 100° F. by ASTM Method D 56, that has a gravity range from 40° to 46° API, and that has a burning point in the range of 150° to 175° F. It is a clean-burning product suitable for use as an illuminant when burned in wick lamps. Includes grades of kerosene called range oil having properties similar to No. 1 fuel oil, but with a gravity of about 43° API and having a maximum end-point of 625° F. Kerosene is used in space heaters, cook stoves, and water heaters.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7° API, a 10-percent distillation temperature of 400° F., and an end-point of 572° F. It is covered by ASTM Specification D 1655 and Military Specification MIL-T-5624L (Grade JP-5 and JP-8). It is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Lease Separator. A surface facility used for separating casinghead gas from produced crude oil and water and separating gas from that portion of associated gas and non-associated gas that liquefies at the temperature and pressure conditions of the separator.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, ethane-propane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids. Formerly called "Liquefied Gases."

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state. The reported categories are ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which are reported as petrochemical feedstocks and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstocks, other uses, or both.

Lubricants. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. "Lubricants" includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories reported are:

- Bright Stock—A refined, high viscosity lubricating oil base stock that is usually made from a residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.
- Neutral—A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100° F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.
- Other—A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Miscellaneous Products. Includes all finished products not classified elsewhere. "Miscellaneous products" include petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and other finished products.

Motor Gasoline Blending Components. Finished components in the gasoline range that will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition

engines. Specifications for motor gasoline, as given in ASTM Specification D 439 or Federal Specification VV-G-1690B, include a boiling range of 122° to 158° F. at the 10-percent point to 365° to 374° F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gasoline" includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

- Finished Leaded Gasoline—Contains more than 0.05 grams of lead per gallon or more than 0.005 grams of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating.
- Finished Unleaded Gasoline—Contains up to 0.05 grams of lead per gallon and 0.005 grams of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating.
- Gasohol—A blend of alcohol and finished motor gasoline that is no more than 90 percent of finished motor gasoline (leaded or unleaded as described above) and no less than 10 percent or more alcohol (ethanol or methanol).

Motor Gasoline (Total). Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range with an average gravity of 52.8° API and 20 to 90 percent distillation temperatures of 290° to 470° F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. This category excludes ram-jet and petroleum rocket fuels, which are included in the "Miscellaneous Products" category.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Processing Plant. A facility designed to recover natural gas liquids from a stream of natural gas that may or may not have been processed through lease separators or natural gas field facilities. The facility also controls the quality of natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Producers Association.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and-exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and

grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal, tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum, principally for the manufacture of synthetic rubber and a variety of plastics. The categories reported are "Naphtha-less than 400° F. end-point" and "Other oils over 400° F. end-point."

- Naphtha less than 400° F. end-point—A naphtha with an end point of less than 400° F. and that is reported as used as a petrochemical feedstock.
- Other oils over 400° F. end-point—Oils with an end point over 400° F. and that are reported as used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is 5 42-gallon barrels per short ton.

- Marketable Coke—Those grades of coke that are produced in delayed or fluid cokers and which may be recovered as relatively pure carbon. This "green" coke may be sold or further purified by calcining.
- Catalyst Coke—In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, ethane, liquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-over 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas plant liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas plant liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. "Primary Stocks" excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous hydrocarbon. C_3H_8 extracted from natural gas and refinery gas streams. It is used primarily as a fuel and as a petrochemical feedstock. Propane is covered by ASTM Specification D1835, Gas Processors Association for commercial and HD-5 propane, and ASTM Specification for special duty propane.

Propylene. An olefinic hydrocarbon, C_3H_6 , recovered from refinery and petrochemical processes. It is reported in the "Propane" category.

Residual Fuel Oil. Topped crude of refinery operations. "Residual Fuel Oil" includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C; Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2; Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Imports of residual fuel oil include "Imported Crude Oil Burned as Fuel."

Road Oil. Any heavy petroleum oil, including residual asphaltic oils, used as a dust palliative and surface treatment of roads and highways. It is generally produced in six grades; from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, and solvents. These products are refined to a specified flash point and have a boiling range of 90° to 220° F. "Special naphthas" includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D 484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

 ${\bf Steam\ (Purchased).} Steam\ that\ is\ purchased\ for\ use\ by\ a\ refinery\ that\ was\ not\ {\bf generated\ from\ within\ the\ refinery\ complex.}$

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and refinery fuel use.

- Petrochemical Feedstock Use—Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadiene, etc. are considered petrochemical products; therefore, only their feedstock equivalents are included.
- · Fuel Use-All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

 $\textbf{Unfinished Oils.} \ Includes \ all \ oils \ requiring \ further \ processing, except \ those \ requiring \ only \ mechanical \ blending.$

Unfractionated Stream. Mixtures of unsegregated natural gas plant liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is a light-colored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades reported are microcrystalline, crystalline—fully refined, and crystalline—other. The conversion factor is 280 pounds per 42-gallon barrel.

• Microcrystalline Wax—Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

```
Penetration at 77° F. (D-1321)—60 maximum.
Viscosity at 210° F. in Saybolt Universal Seconds (SUS)
(D-88)—60 SUS (10.22 centistokes) minimum to 150
SUS (31.8 centistokes) maximum.
Oil content (D-721)—5 percent minimum.
```

• Crystalline-Fully Refined Wax-A light-colored paraffin wax having the following characteristics:

```
Viscosity at 210° F.
(D-88)—59.9 SUS (10.18 centistokes) maximum.
Oil Content (D-721)—0.5 percent maximum.
Other +20 color, Saybolt minimum.
```

 Crystalline-Other Wax—A paraffin wax having the following characteristics: Viscosity at 210° F. (D-88)—59.9 SUS (10.18 centistokes) maximum.
 Oil Content (D-721)—0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

Bureau of Mines Petroleum Refining Districts and PAD

PAD District

Refining District

East Coast—District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian #1—The State of West Virginia, those parts of the States of Pennsylvania and New York not included in the East Coast District.

Appalachian #2-The following counties of the State of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all counties east thereof.

Indiana—Illinois—Kentucky—The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

Minnesota-Wisconsin-North and South Dakota-The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri-The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

Texas Inland-The State of Texas except the Texas Gulf Coast District,

Texas Gulf Coast—The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast—The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas—The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico-The State of New Mexico.

Rocky Mountain-The States of Montana, Idaho, Wyoming, Utah, and Colorado.

West Coast-The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

II

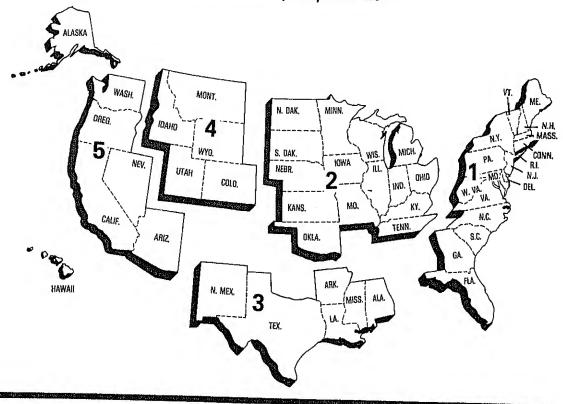
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III

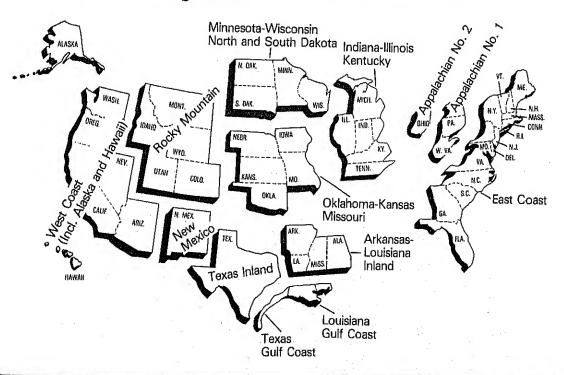
IV

V

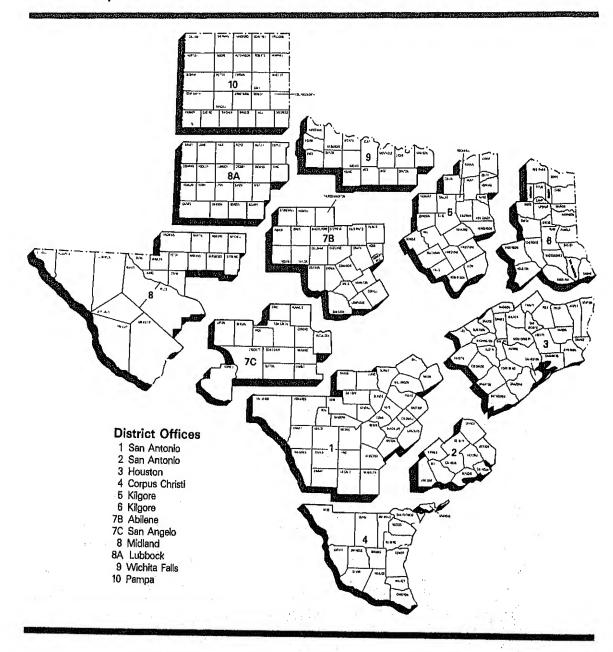
Petroleum Administration for Defense (PAD) Districts



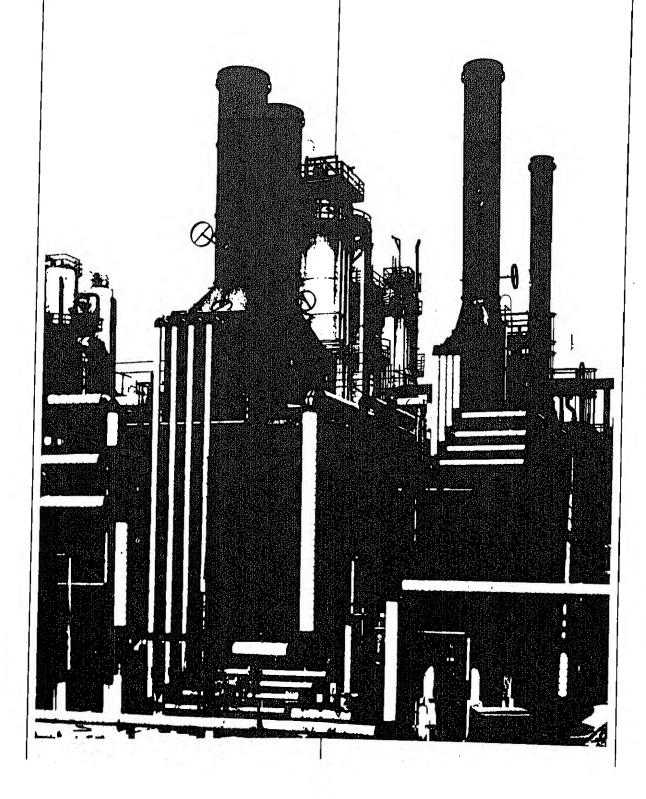
Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas



Explanatory Notes



Explanatory Notes

Note 1.1 EIA-64: Natural Gas Liquids Operations Report

Background

The EIA-64, "Natural Gas Liquids Operations Report" evolved from a survey designed and conducted by the United States Geological Survey beginning in 1911. This form collects data on the production and storage of natural gas plant liquids at natural gas processing plants and fractionators.

Description of Survey

Universe

The universe includes all operators of facilities designed to: (1) extract liquid hydrocarbons from natural gas streams (natural gas processing plants); (2) separate a combined products liquid hydrocarbon stream into its component products, i.e. propane, butane, natural gasoline, etc. (fractionators); or (3) store the liquid hydrocarbon output of plants and fractionators.

The mailing list is automated. It is maintained by matching periodically with the *LP Gas Almanac* listings (including supplements) and the *Oil and Gas Journal* Processing Plant Survey listings, and by making changes reported by the respondents.

Information Collected

The data are submitted monthly by facility and include all products that the company controls through possession, regardless of ownership. The main items of information collected by the EIA-64 are shown by the example of the form presented below.

Collection Methods

Completed reports are required to be postmarked 20 days following the last day of the report month. Follow-up telephone calls are made to nonrespondents in order to collect data before publication of the aggregated data.

Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. The value of shipments is adjusted to balance stock level, production, receipts, plant fuel use, and losses. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by a resubmission of actual data.

Response Rates

The initial response rate averages 85 percent, with a final response averaging 98 percent as a result of telephone follow-up procedures.

Data Processing

Upon receipt, the reports are reviewed for identification section omissions, duplicate submissions, and identification information changes. The data are then entered and edited. The edit program includes checks for invalid data entry codes, range checks for current-month to previous-month changes (absolute and relative), arithmetic calculation errors, line balancing errors, etc. Telephone calls are made to respondents to resolve questions.

Note 1.2 EIA-87, 88, 89 and 90: Joint Petroleum Reporting System

Background

The Joint Petroleum Reporting System (JPRS) comprises four surveys; the "Refinery Report" (EIA-87); the "Bulk Terminal Stocks Report" (EIA-88); the "Pipeline Products Report" (EIA-89); and the

| | | | | 5-0109 | | | | | Stocks End of | Month | Ē | | | | | | | | | | | | | | | | | T | | T | | | | | | 00000000 | Į. | |
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| | Report Type | TITICATION NUT | Report Date (Last Day of Reporting Month) | Zip Code of Plant Location | Insert X an B | Plant Name | | اق | Chemical | Plan | ğ | - | - | | - | | | | | | | | | | | | | | | | | | | | | | X | |
| | 3 | LIA CUMPANY Identification Number. | Яерол | Zip Code | If Resubmission, Insert X in Block | | | Shipments To: | Refinery | 9 | ic. | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| | č | C i | | | 25 | | | | Storage | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | Y | |
| | | | | | | | | | ating | raciiity (e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Grav | ministration st | | Natural Gas Liquids Operations Report | This Report is Mandatory Under Public Law 93275 Faulte to Comply that Result in Company France Paul Panciers and Aug. | d Other Sanction | ionator Opera | | During | Month | (D) | | | | | | | | | | | | | | | | | | | | | | | | | | × | | |
| U.S. Department of Energy | Energy Information Administration Mail Station: BG-086 Forst | wesnington, U.C. 20585 | Liquids Oper | nder Public Law 9. | . Critic renditives at | ant and Fract | Capalia | Beanning | of Month | (8) | | | | | | | | | | | | | | | | † | | | | - | | | | + | | ************************************** | | |
| U.S. Dep | Energy In Mail Static | vvesningt: | Natural Gas | s Mandatory U | | ocessing Pl | | Product | Code | - | 333 | 252 | 522 | 235 | 236 | 234 | 240 | | 228 | 229 | 210 | 227 | | | 133 | 135 | 150 | | 211 | 513 | 41,5 | 7.7 | | | 888888888888888888888888888888888888888 | 911 | | |
| | | | | This Report | by Law | Section 1. Natural Gas Processing Plant and Fractionator Operations (Barrels of 42 Call) | | Products | | | | Ethane-Propane Mix | | Butane | Itanes | Butane-Propane Mix | je. | aasoline: | 14# and Less RVP | A RVP | ndensate | Unitactionated Stream | Finished Aviation | Finished Leaded | Finished Unleaded | | aphthas | , | Kernsene Tune | 241.0 | uel Oil | Other Products (Specify) | | | Overage (Inputs) or | Production) | | |
| EIA-64 | | | *** | | | Section | | | | Ethane | Propane | Ethane-P | Isobutane | Normal Butane | Other Butanes | Butane P | Isopentane | Natural Gasoline: | 14# an | is of | Flant Condensate | Caractor | Finisher | Finished | Finished | Gasohol | Special | Naphthy Ting | Negara A | Kerosena | Distillate F | Other Proc | | | Overage (| Shorage (| | |
| | | | | | | | | | : | | | | | | | | | | | | | | | | | - | | | | | | | | | | | | |
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"Crude Oil Stocks Report" (EIA-90). This group of forms collects data on petroleum refinery operations and on storage of crude oil and petroleum products. The origins of JPRS lie in the voluntary petroleum reporting systems instituted by the Bureau of Mines (BOM) soon after it was established as a part of the Department of the Interior in May 1910.

Description of Survey

Universe

The respondent universe of each JPRS survey is defined as follows:

EIA-87: All petroleum refineries and plants producing finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Hawaiian Foreign Trade Zone, and Guam.

EIA-88: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin Islands that (a) have total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline regardless of ownership of the material.

EIA-89: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia.

EIA-90: Crude oil pipeline companies (gathering and trunk pipeline companies), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water (in excess of 1,000 barrels), regardless of ownership in the 50 States and the District of Columbia.

The list of respondents is kept current by checking for new respondents in the Oil and Gas Journal weekly magazine; newspaper articles; the Office of Resource Applications publication "Trends in Refinery Capacity & Utilization;" the Office of Refinery Operations (ERA) list of U.S. Refiners; and the annual survey EIA-177 "Capacity of Petroleum Refineries."

Information Collected

The main items of information collected by EIA-87, are shown by the example presented below. The EIA-88 and EIA-89 collect data on petroleum product stocks. The EIA-90 collects data on crude oil stocks and crude oil used directly as fuel.

Collection Methods

The data for the JPRS surveys are collected on a monthly basis. Completed forms are required to be postmarked by the 20th day following the report month. Telephone follow-up calls are made to nonrespondents in order to collect data before publication deadline. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

Imputation is performed only for companies that submitted a report in the previous month. For these companies, the previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. The value of shipments is adjusted to balance stock level, production receipts, and losses. In the event that previous month's data were estimated, the respondent is contacted and requested to submit estimates if necessary, to be followed by a resubmission of actual data.

Response Rates

As of the filing deadline, the response rate of the JPRS respondents is over 90 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Thirty calendar days after the report month, data for companies that still fail to file the form are estimated based on prior month's data. Names of companies that fail to file for two consecutive months are forwarded to DOE for further noncompliance action. Final response rate is 100 percent.

| | | | ITh- | UCTION, SHIPMEN of Barrels of 42 G | ITS AND REFINER | Y FUEL USE AN | ID LOSSES | |
|---|--------------|--|--|--|-------------------------|-----------------|---|------------------------|
| ITEM DESCRIPTION | PRO | STOCKS BEGINN N | | 5 1 | PRODUCTION DURING MONTH | SHIPMENTS | Otherov | STOCK |
| THE MI DESCRIPTION | cor | | B | | 1 | DUR/NG MONTH | FUEL USE AND LOSSES DURING MONTH | STOCK END O MONT |
| Crude oil (incl. lease condensate) Total (sum of codes 010 and 020) | 050 | | | <u>-</u> - | × | | - | G |
| Domestic finct, Alaskan) | 010 | 2 X | | | | | | |
| Foreign Alaskan | 026 | | | Ŷ | X | X | X ' | 1 3 |
| Products of natural gas proc. plan- Ethane | | | | × | × | Ŷ | <u> </u> | 2 |
| Propane | 231 | | | | X | | | |
| Ethane propane mixtures | 241 | | | | X | | | |
| (sobutane | 233 | | | | X | - | | ļ |
| Normal butane Other butanes | 235 | | | | x | | | |
| Butane - propane mixtures | 236 | | | | X | | | |
| Natural gasoline and isopensane | 220 | | | | X | | | |
| Plant condensate | 210 | | | | X | <u> </u> | | - |
| Unfractionaled stream | 227 | | | | x | | | |
| Other hydrocarbons and hydrogen | 090 | | | | × | | | |
| Atcohal Unfinished ads | 09 1 8 12 | ļ | | | X | | | |
| Gasoline - Finished leaded, motor | 132 | | | | | | | |
| Finished unleaded, motor | 132 | | | | <u> </u> | | | |
| Blending components, motor | 133 | | | | | | | |
| Gasotrol | 135 | | | | | | | |
| Finished aviation Blending components, aviation | 111 | | | | | | | |
| Special naphmos (solvents) | 051 | | | | | | | |
| Jot fuel: Naphthe-type | 211 | | | | | | | |
| Kerosene type | 213 | | | | | | | |
| Kerosone (Incl. range oil) Distillate fuel oil. Less No. 4 | 311 | | | | | | | |
| No. 4 fuel oil | 412 | - | · | | | | | |
| Residual fuel oil | 511 | | | | | | | |
| Lutricating oils Bright stock | | | | - | | * | | |
| Neutral | 853 865 | | | | [I | | | |
| Other | 059 | | | | | | | |
| Aiphait | 900 | | | | | | | |
| Wax Microcrystalling | 061 | | | | | · | | |
| Crystalline-fully refined | 071 | | | · | ļ. | | | |
| Crystalline-other | 081 | | | <u> </u> | | | | |
| Patroleum coke: Markotablo | 021 | | | | | | | |
| Catalyst | | 建设证据 | | | | | 7 | XX. |
| Ront oll Bill gos | 031 | Price I I's | | | | | | 2012 |
| Other use | 042 | ં તમ | | ļ <u> </u> | | | | 3 X |
| thano anti/or sitsylene. | 044 | X | | | | | | |
| Petrochamical feedstock use | 612 | | | 1 | 1 | 1 | | |
| Other use | 652 | | | | | | | |
| ropane and/or propylane: Petrochemical feedstock use | 613 | | | 1 | | | | |
| Other use | 653 | | | | | | | |
| lutene and/or butylene: Petrochemicel feedatock use | 614 | | | | | | | |
| Other use | 654 | | | | | | | |
| utone-propane mixtures: Patrochemical legistock use | 816 | | | | | | | |
| Other use | 656 | | | | | | | |
| obutanii petrochemical feeristock use aphtha —less than 400° end-point | 615 | | | | | | | |
| Petrochemical feedstock use ther oils—over 400° end-point | 822 | | | | | | | |
| Petrochemical feedstock usa ther finished products | 824 | | | | | | | |
| Non - Ivel use Fuel Use | 097 | | | | | | | |
| rage (Inputs) or shortage (production) | 911 | X | X | | | -x | X | V(\$6.5 |
| TOTAL | 099 | - X | Service Control | | | | - 3 - 12 | تنتنب |

Note 1.3 EIA-161, 162, 163, 164 and 165: Weekly Petroleum Reporting System

Background

The Weekly Petroleum Reporting System (WPRS) comprises five surveys: the "Refinery Report" (EIA-161); the "Bulk Terminal Stocks Report" (EIA-162); the "Pipeline Product Stock Report" (EIA-163); the "Crude Oil Stocks Report" (EIA-164); and the "Imports Report" (EIA-165).

The EIA weekly reporting system was designed to collect data similar to those collected under the monthly Joint Petroleum Reporting System(JPRS) (See Note 1.2). In the WPRS, selected petroleum companies report weekly data to EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On the Forms EIA-161 through EIA-164, companies report data on a custody basis. On the Form EIA-165, the importer of record reports each shipment entering the United States. Current weekly data and the most recent monthly data from the JPRS are used to estimate the published weekly totals.

Description of Survey

Universe

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly in either the JPRS system or the ERA-60 system (for imports). All sampled companies report data only for facilities in the 50 States and the District of Columbia.

The sampling frame for each weekly survey is defined as follows:

EIA-161: Uses the EIA-87 universe, which includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gasoline.

EIA-162: Uses the EIA-88 universe, which includes all bulk terminal facilities in the Uited States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline.

EIA-163: Based on the EIA-89 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural gas liquids are not included in the EIA-163 frame. Only those pipeline companies which transport products covered in the weekly survey are included.

EIA-164: Uses the EIA-90 universe, which consists of all trunk pipeline companies in the United States and its territories which transport crude oil, all refining companies, all crude oil producers, all terminal operators, and all storers of 1,000 barrels or more of crude oil.

EIA-165: Uses the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico.

Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for the previous time period.

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. All canvassed firms and terminal operating companies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

Formula and Calculations

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data.

First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum, W_s) Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M_s). Finally, let M_t be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies is given by.

$$W_t = \frac{M_t}{M_s} \circ W_s$$

This procedure is used directly to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Under such conditions, the ratio method is known to result in large errors. Hence, a number of other procedures for estimating weekly imports were considered. The average ratio method was selected for estimating imports because it produces estimates that were close to benchmark values computed from monthly data. Estimates are obtained using the ratio method, but with each company in turn omitted from the sample. These estimates are then averaged to obtain the average ratio estimate.

Imputing Missing Data

The ratio method of estimation automatically imputes for nonresponse. Data from companies that do not respond are excluded from both the weekly and the monthly totals for the sampled companies.

Response Rates

The response rate as of the day after the filing deadline is about 80 percent for the EIA-161; 75 percent for the EIA-162; 95 percent for the EIA-163; 80 percent for the EIA-164; and greater than 95 percent for the EIA-165. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimates is usually between 2 percent and 5 percent.

Note 1.4 EIA-170: Tanker and Barge Shipments of Crude Oil and Petroleum Products Between Districts

Background

The EIA-170 survey collects data for calculation of monthly petroleum supply and disposition figures on U.S. and PAD District levels.

Instrument and Design

This form is designed to collect data on total movements by tanker and barge of crude oil and petroleum products between PAD Districts or between PAD Districts and the Panama Canal, by shipping State and receiving State.

Universe

The respondent universe of the EIA-170 consists of all known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are currently about 60 respondents.

Collection Methods

Survey data are collected by mail every month. The filing deadline is the 20th calendar day of the month following the report period. The response rate as of the filing deadline is about 98 percent. Late respondents are contacted by telephone. All responses are processed each month before release of the data for publication.

Note 1.5 ERA-60: Reports of Oil Imports into the United States and Puerto Rico

Background

The "Report of Oil Imports into the United States and Puerto Rico" (ERA-60) survey was designed by the Economic Regulatory Administration (ERA) of the Department of Energy to collect data on port of entry, country of origin, destination, and quantity of imported crude oil and petroleum products, as well as sulfur content and API gravity. All licensed importers and importers of record are required to report. The "Shipments of Refined Products from Puerto Rico to the United States" (P-133-M-O) survey was designed to collect data on imports to the United States that are not covered by the ERA-60.

Universe

The monthly submission of Form ERA-60 and P-133-M-O is required by all licensed importers and importers of record into the United States and Puerto Rico. The respondent universe consisted of approximately 750 firms as of June 30, 1981. The respondent universe for these surveys is updated whenever an import license is granted by the Office of Oil Imports of the ERA.

Collection Methods

The survey data are collected by mail each month. It is mandatory for each respondent to file the ERA-60/P-133-M-O by the 15th working day of the month following the reporting period. Resubmissions are received frequently and are processed when received.

Response Rates

In December 1980, the survey had a response rate of 92 percent by the filing deadline. The universe was 640 at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard followup of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. Response rate is generally 98-99% by the time the data are first published. Revised publications are not generated as standard operating procedure. The ERA-60 file is never closed; resubmissions are constantly received and processed.

Note 1.6 Census Import (IM-145) and Export (EM-522 and EM-594) Tabulations

The foreign trade statistics program, conducted by the Bureau of the Census, involves compilation and dissemination of a large body of data relating to the imports and exports of the United States.

Import Statistics

Coverage

The import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (includes the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- 1. Merchandise shipped in transit through the United States, when documented with Customs as an intransit movement.
- 2. Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; shipments between any of these outlying areas; and imports into U.S. possessions from foreign countries.
- 3. U.S. merchandise returned by U.S. Armed Forces for their own use.

Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs 7501–7505).

Imported petroleum is reported as "Imports for Consumption." Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (includes the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. Shipments between the United States and Puerto Rico, the Virgin Islands, Guam, American Samoa, and other U.S. possessions; between any of these outlying areas; and shipments from U.S. Possessions to foreign countries.
- $2. \ \ Merchand is eshipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.$
- $3. \ \ Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.$

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Shipper's Export Declarations are required to be filed with Customs officials, except when qualified exporters have been authorized to submit data in the form of magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations directly to the Bureau of the Census.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shippent is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2 Estimation

The geographic coverage of all estimates is the 50 United States and the District of Columbia, including adjacent areas of the outer continental shelf, excluding the Hawaiian Foreign Trade Zone.

Note 2.1 Supply

The components of petroleum supply are field production, refinery production, imports, stock withdrawal or addition, crude oil used directly, and losses.

Field Production is the sum of crude oil (including lease condensate) production, natural gas processing plant production, and new supply (field production) of other liquids used by refineries,

Crude oil production is estimated based on data received from State conservation and revenue agencies. Reports of crude oil production from each of the 31 producing States are not received until several months after the other components of petroleum supply described in Explanatory Note 2.1 are available for publication. For an explanation of the crude oil estimation procedure used until the State reports are complete, see Explanatory Note 2.2.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-64, "Natural Gas Liquids Operation Report." Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-64, "Natural Gas Liquids Operations Report." Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.1.

Refinery Production of LRGs, ethane, and finished petroleum products is reported monthly on survey Form EIA-87, "Refinery Report." Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month.

Refinery production is also reported weekly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 1.2 and 1.3 for survey descriptions and other detail. It should also be noted that refineries do not report production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other hydrocarbons and alcohol.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, "Report of Oil Imports into the United States and Puerto Rico," and Form P-133-M-O, "Shipments of Refined Products (including unfinished oils) from Puerto Rico to the United States." In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in imports of liquefied petroleum gases (LPG), where Census data show a much higher level of imports than Energy Information Administration data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and because LPGs are not licensed products. Therefore, respondents that only import LPGs have not been identified, and do not report these imports to the Department of Energy. Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphtha and kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting system.

Imports are also reported weekly on survey Form EIA-165, "Imports Report." See Explanatory Notes 1.3, 1.5, and 1.6 for survey descriptions and other detail.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and reduce petroleum supplies distributed for domestic consumption. For survey forms used to make stock withdrawal or addition calculations see Explanatory Note 2.4.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition. Crude oil supply is the sum of field production, imports and stock withdrawal or addition, less crude used directly and losses. Crude oil disposition is the sum of exports and refinery input.

Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A negative result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used. This calculation is performed for crude oil to ensure that product supplied for crude oil is always zero.

Crude Oil Used Directly and Losses is the sum of crude oil losses at refineries, crude oil burned at refineries, and crude oil burned on leases. Crude oil losses and consumption at refineries are reported on Form EIA-87, "Refinery Report." Crude oil burned on leases is reported on Form EIA-90, "Crude Oil Stocks Report." Crude oil burned on leases is divided into two categories: crude burned as residual fuel oil and crude burned as distillate fuel oil. Crude burned on leases appears as a negative supply to crude oil (a reduction in crude oil supplies) and as a positive supply to residual and distillate fuel oil (an increase to these supplies).

Note 2.2: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the individual State conservation agencies, which collect crude oil production values for tax purposes. In addition, the U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of six State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports from the State conservation agencies and the U.S. Geological Survey. The six States that do not report monthly values are Indiana, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 3 to 4 months between the end of the reporting month and the time when the actual values are available for this publication. In order to provide more timely crude oil production estimates, the Department of Energy has established a series of statistical models that forecast the volume of crude oil production based on the historical production patterns. The models use Auto Regressive Integrated Moving Average (ARIMA) to analyze series of monthly crude oil production values collected over several years.

In order to provide detailed crude oil production information on both the PAD District level and for the major producing States, the total United States crude oil production volume was separated into nine distinct groupings. The nine different time series are the monthly reported crude oil production volumes for: (1) all the States in PAD District 1; (2) all the states in PAD District 2; (3) Texas; (4) Louisiana; (5) the States in PAD District 3 excluding Texas and Louisiana; (6) all the States in PAD District 4; (7) Alaska; (8) California; and (9) the States in PAD District 5 excluding Alaska and California. Monthly data collected beginning in January 1973 are used for each of these time series.

A separate ARIMA model is identified for each time series. New model parameters are estimated monthly for each of these nine updated time series. Then, these ARIMA models are used to forecast crude oil production volumes for the month of interest. These values are then aggregated into PAD District and national totals. The forecasts made during 1981 had an average error of less than 0.6 percent compared to the monthly crude oil production volumes eventually reported by the States.

Note 2.3 Disposition

The components of petroleum disposition are refinery input, exports, and products supplied for domestic consumption.

Refinery Inputs of crude oil, NGPL and other liquids are reported monthly on survey Form EIA-87, "Refinery Report." Published inputs of unfinished oils, and motor and aviation gasoline blending components, equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production. Refinery inputs are also reported weekly on survey Form EIA-161, "Refinery Report." See Explanatory Notes 1.2 and 1.3 for survey description and other details.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM522 and EM594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawaiian Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-87.

Product supplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, plus crude oil used directly and losses (plus net receipts when calculated on a PAD District basis), minus refinery input, minus exports. This formula ensures that total disposition equals total supply. Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative when total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) misreporting or delayed reporting of data, and (3) for calculations on a PAD District basis, incomplete coverage of interdistrict movements data compiled to calculate net receipts.

Note 2.4 Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-87, "Refinery Report," and Form EIA-90, "Crude Oil Stocks Report." Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form 161, "Refinery Report," and Form EIA-164, "Crude Oil Stocks Report." Primary stocks of petroleum products are summed from data reported on the Form EIA-64, "Natural Gas Liquids Operations Report," Form EIA-87, "Refinery Report," Form EIA-88, "Bulk Terminal Stocks Report," and Form EIA-89, "Pipeline Products Stocks Report." Primary stocks of petroleum products do not include secondary stocks held by dealers and jobbers, or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-161, "Refinery Report," Form EIA-162, "Bulk Terminal Stocks Report," and Form EIA-163, "Pipeline Products Stocks Report." For survey descriptions and other details see Explanatory Notes 1.1., 1.2, and 1.3.

Note 2.5 Average Stock Levels

The graphs displaying monthly stock levels of petroleum products, crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquified petroleum gases and ethane, and other products provide the user with recent data as well as a summary of data from the most recent 3 year period from January through December or from July through June. This summary takes the form of an "average range" that includes seasonal variation determined from a longer time period. The average range represents the historical pattern; it is not a forecast.

These curves are updated every 6 months effective January 1 or July 1 by basing the "average ranges" on a more recent time period. At that time, each 3-year data series will be adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors were estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors were assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels). The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors were very small relative to crude oil stock levels. Therefore, the seasonal factors for crude oil stock levels were set to zero. The seasonal factors for total petroleum (crude and products), distillate fuel oil, residual fuel oil, liquefied petroleum gases and ethane, and other products were derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors were based on $monthly\,data\,from\,1975,\,1976,\,1978,\,1979\,and\,1980.\,In\,1977,\,there\,was\,virtually\,no\,se a sonal\,behavior\,in\,1975,\,1976,\,1978,\,1979\,and\,1980.\,In\,1977,\,there\,was\,virtually\,no\,se a sonal\,behavior\,in\,1979,\,19$ motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973 and 1974 appeared to be different from those in recent years. It was therefore assumed that the seasonal patterns in 1973, 1974, and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for total petroleum (crude and products), crude oil, distillate fueloil, residual fueloil, liquefied petroleum gases and ethane, and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3 year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the "average range" is twice this standard error.

The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 2.6 Movements

Movements of crude oil between PAD Districts are reported on Form EIA-170, "Tanker and Barge Report." Petroleum product movements are reported on Forms EIA-170 and EIA-89, "Pipeline Products Report." Net receipts are calculated by summing total movements into and total movements from each PAD District by pipelines, tankers, and barges, and subtracting for the difference, Movements of crude oil by pipeline are not reported. For survey descriptions and other detail, see Explanatory Notes 1.2 and 1.4.

Note 2.7 Preliminary Monthly Statistics

Data from the Weekly Petroleum Reporting System (Forms EIA-161, 162, 163, 164 and 165) are used to estimate the most recent monthly values for the historical statistics. Since some of the weekly reporting periods overlap 2 adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To calculate monthly estimates of crude oil and petroleum product imports, crude oil input to refineries, and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel and residual fuel) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the 2 weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of earlier of the 2 weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 2.2.

Note 3 Accuracy of Petroleum Supply Data

Early in 1981, the Energy Information Administration completed an assessment of the accuracy of principal petroleum supply data series. This assessment concentrated on two methods of analysis:

- •Comparisons between EIA's final annual estimates published in the *Petroleum Statement Annual* (PSA) and annual estimates from independent sources.
- •Comparisons between EIA's final monthly estimates published in the PSA and EIA's earlier estimates published in the Monthly Petroleum Statistics Report and the Petroleum Statement, Monthly (predecessor of the Monthly Petroleum Statement).

Selected excerpts from these comparisons are presented below.

Comparisons of Annual Estimates

All of the systems that provide data for the *Petroleum Supply Monthly*, except for the weekly systems, try to collect data from the entire universe of their potential respondents. They do not sample, and have no sampling errors. Inaccuracies in the data still occur because of problems such as incomplete lists of respondents, errors in the responses, and conceptual errors in the design of the data systems. Such inaccuracies are hard to identify and even harder to quantify. Some understanding of the overall accuracy of the estimates can be achieved by comparing estimates derived from independent sources of data, as shown in the following tables. Close agreements among annual estimates from several independent sources support the conclusion that the estimates are accurate, and accuracy in the annual estimates implies accuracy in the monthly estimates that comprise the annual estimates.

Crude Oil Production

Comparisons among independent estimates of annual crude oil and lease condensate production lead to the conclusion that the PSA estimates are probably accurate to within 1 percent.

Crude Oil Imports

Comparisons among independent estimates of annual crude oil imports lead to the conclusion that the PSA estimates are probably accurate to within 1 percent. This conclusion is supported by a study of EIA and Customs/Census import data performed for EIA.²

Motor Gasoline Supplied

Comparisons among independent estimates of the annual volume of motor gasoline supplied for domestic use show that differences in the estimates grew between 1977 and 1979. By 1979, the EIA estimate of sales by refiners and the Environmental Protection Agency's estimate of production had grown about 5-7 percent larger than the comparable *PSA*, Lundberg, and American Petroleum Institute (API) estimates. Research conducted by EIA in 1979 and 1980³ confirmed that the lower

¹An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292, June 1981.

²Maxima Corporation, Petroleum Imports Reporting Systems, Preliminary Draft, (Silver Spring, Maryland: February 1980). Prepared for the Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Washington, D.C.

³Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, An Evaluation of Published EIA Gasoline Supply Estimates (Washington, D.C.: April 1980).

estimates were inaccurate, and identified changes in the petroleum industry that had an adverse effect on the PSA estimate. During 1980, EIA developed and tested improved procedures for collecting petroleum supply data, and implemented them in January 1981. (See Explanatory Note 4.)

Distillate Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of distillate fuel oil supplied for domestic use lead to the conclusion that the PSA estimates are probably accurate to within 1 to 2

Residual Fuel Oil Supplied

Comparisons among independent estimates of the annual volume of residual fuel oil supplied for domestic use seem to show sizable and consistent differences between the EIA estimates of sales by refiners and the PSA and API estimates. When imports of residual fuel oil by nonrefiners are added to the refiner sales, however, the difference between refiner sales and the PSA estimates are narrowed to within 1 percent. The comparisons therefore lead to the conclusion that the PSA estimates are probably accurate to within 1 to 2 percent.

Comparison of Estimates of the Volume of Crude Oil and Lease Condensate Production, 1977-1979

| | Produc 42-U.S | ated Volution in M . Gallon I | illions of | | ative Esti Percent PSA Est | mate as a timate |
|---|------------------|----------------------------------|------------|--------|----------------------------------|---------------------|
| EIA Estimate from Petroleum Statement | 1979 | 1978 | 1977 | 1979 | 1978 | 1977 |
| Annual b Comparative Estimates | 3,121 | 3,178 | 3,009 | /// | /// | /// |
| American Petroleum Institute Estimate from API Monthly Statistical Report ^e | 3,130 | 3,214 | 3,021 | 100.3% | 101.1% | 100.4% |
| Census Estimate from the Annual Survey of Oil and Gas ^d | | 3,148 | 3,016 | - | 99.1% | 100.2% |
| Oil and Gas Journal Estimates of Total Production derived from Monthly Data | 3,168 | 3,165 | 3,005 | 101.5% | 99.6% | 99.9% |
| EIA Estimate from Annual Survey of Oil and Gas Reserves (EIA-23) ^t | 3,102 | 3,144 | 3,001 | 99.4% | 98.9% | 99.7% |
| /// = Not applicable — = Not available | | | | | | |

^{- =} Not available

Geographic coverage: the 50 United States and District of Columbia with adjacent areas of the Outer Continental shelf.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

aVolumes are rounded to the nearest million barrels.

bFrom Table 6 in EIA's Petroleum Statement Annual, 1977, 1978, 1979.

From issues of the American Petroleum Institute's Monthly Statistical Report. The annual values were obtained by summing the monthly values for each of the twelve-month periods.

dFrom Table 1, p.2 of the Bureau of Census' Annual Survey of Oil and Gas, 1978.

From issues of the Oil and Gas Journal. Monthly estimates are in thousands of barrels per day. They are converted to millions of barrels by dividing by 1,000 and multiplying by the number of days in the reporting period.

From EIA's U.S. Crude Oil and Natural Gas Reserves 1979 Annual Report (Table 19, p. 33), 1978 Annual Report (Table 16, p. 20), and 1977 Annual Report (Table 22, p.36).

Comparison of Estimates of the Volume of Crude Oil Imports, 1977-1979

| | , | ne of Mill . Gallon F | | • | ative Esti a Percen Primary E | t |
|--|-------|--------------------------|-------|--------|-------------------------------------|--------|
| | 1979 | 1978 | 1977 | 1979 | 1978 | 1977 |
| EIA Estimate of Receipts at Ports of Entry (ERA-60) from <i>Petroleum</i> Statement, Annual ^b | 2,380 | 2,320 | 2,414 | /// | /// | /// |
| Comparative Estimates | | | | | | |
| American Petroleum Institute Estimate of Receipts as Reported by Refiners | 2,346 | 2,323 | 2,360 | 98.6% | 100.1% | 97.8% |
| Customs/Census Estimate of Receipts at Ports of Entry (Customs Forms 7501 and 7502) ^d | 2.415 | 2.338 | 2.431 | 101.5% | 100.8% | 100.7% |
| EIA Estimate of Inputs of Foreign Crude at Refineries (ETA-87) ^e | 2,364 | 2,334 | 2,431 | 99.3% | 100.6% | 100.7% |

^{/// =} Not applicable

Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

^aVolumes are rounded to the nearest million barrels.

^bFrom Table 1 in EIA's Petroleum Statement Annual 1977, 1978, 1979. This table also includes imports for the Strategic Petroleum Reserve (SPR) which were 7.5 million in 1977, 58.8 million in 1978, and 24.4 million in 1979.

Estimate equals the sum of the annual estimate of imports derived from API's Monthly Statistics Report (which excludes imports for SPR), and the EIA estimates for imports for the SPR which are listed in footnote b above. The annual estimates from API data are equal to the sum of the API monthly estimates weighted by the number of days in each month.

^dData on imports to Puerto Rico which are included in the source for these estimates have been excluded from these estimates in keeping with the geographic coverage of the table. Data are from computer printouts of the Bureau of Census Report IM-245-X dated April 3, 1980 (1977 and 1978 data) and December 19, 1980 (1979 data).

Estimate equals refinery inputs of foreign crude plus (minus) stock increases (decreases) of foreign crude. The data for the computation are published in EIA's Petroleum Statement, Annuals. The stock changes (all increases) are derived from data on stocks of crude oil at refineries, bulk terminals, and pipelines as reported on Form EIA-90, plus the increase in the SPR. This estimate excludes crude oil imported and not used as refinery input.

Comparison of Estimates of the Volume of Motor Gasoline Supplied for Domestic Use, 1977-1979

| | Volun 42-U.S | ne in Mill . Gallon H | ions of Barrels ^a | Volum Percent o | Volume Supplied as a cent of the PSA Estimate | | | |
|--|-----------------|--------------------------|---------------------------------|--------------------|---|--------|--|--|
| | 1979 | 1978 | 1977 | 1979 | 1978 | 1977 | | |
| EIA Estimate from Petroleum Statement, Annual ^b | 2,573 | 2,711 | 2,625 | /// | /// | /// | | |
| Comparative Estimates | | | | | | | | |
| EIA Estimate of Sales by Refiners (P-306) ^c | 2,708 | 2.792 | 2.671 | 105.2% | 103.0% | 101.8% | | |
| Environmental Protection Agency Estimate derived from Production Datad | 2,766 | 2.851 | 2,706 | 107.5% | 105.2% | 103.1% | | |
| Lundberg Surveys, Inc. Estimate of U.S. Motor Gasoline Sales ^e | 2,631 | 2.746 | 2,656 | 102.3% | 101.3% | 101.2% | | |
| American Petroleum Institute Estimate of Deliveries ^f | 2,579 | 2,697 | 2,612 | 100.2% | 99.5% | 99.5% | | |
| 1/1 37 : 37 37 | | | | | | 20.070 | | |

^{/// =} Not applicable

Geographic coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Comparison of Estimates of the Volume of Distillate Fuel Oil (Including Kerosene) Supplied for Domestic Use, 1977-1979

| | Volum 42-U.S | ne in Mill . Gallon I | ions of Barrels ^a | Volum Percent o | e Supplie f the PSA | ed as a Estimate |
|--|-----------------|--------------------------|---------------------------------|--------------------|------------------------|---------------------|
| · | 1979 | 1978 | 1977 | 1979 | 1978 | 1977 |
| EIA Estimate from Petroleum Statement Annual ^b | 1,269 | 1,307 | 1,275 | /// | /// | /// |
| Comparative Estimates | | | | | | |
| EIA Estimate of Sales by Refiners (P-306) ^c | 1,282 | 1,275 | 1,242 | 101.0% | 97.6% | 97.4% |
| American Petroleum Institute Estimate of Deliveries ^d | 1,291 | 1,300 | 1,277 | 101.7% | 99.5% | 100.2% |

^{/// =} Not applicable

Geographic coverage: the 50 United States and the District of Columbia.

^aVolumes are rounded to the nearest million 42-U.S. gallon barrels.

^bDerived from Table 2 in EIA's Petroleum Statement Annual, 1977, 1978, 1979.

^cDerived from Table 1 of EIA's December issue of *Petroleum Market Shares, Report on Sales of Refined Petroleum Products* 1977, 1978, 1979.

^{cb}The estimate shown is derived by substituting EIA Domestic Production values with values of domestic production tabulated from the Environmental Protection Agency Bq. Form 3520–2, "Lead Additive Report for Refineries." The EPA production estimates are 2,694 million barrels in 1977, 2,757 in 1978, and 2,648 in 1979 as compared from a summary sheet provided by Mr. Bob Summerhayes of EPA.

^cFrom the mid-June issues of the "National Petroleum News," 1979 and 1980.

⁴API publishes monthly estimates in thousands of barrels per month of the volume of motor gasoline delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of motor gasoline multiplied by the number of days per month.

^aVolumes are rounded to the nearest million 42-U.S. gallon barrels.

^bDerived from Table 2 in EIA's "Petroleum Statement Annual", 1977, 1978, 1979.

 $^{^{\}mathrm{c}}$ Derived from Table 1 of EIA's December issue of Petroleum Market Shares, Report on Sales of Refined Petroleum Products, 1977, 1978, 1979.

^dAPI publishes monthly estimates in thousands of barrels per month of the volume of distillate and kerosene delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of distillate and kerosene multiplied by the number of days per month.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Comparison of Estimates of the Volume of Residual Fuel Oil Supplied for Domestic Use, 1977-1979.

| | | ne in Milli , Gallon B | | | ne Supplie f the PSA | ed as a Estimates |
|---|-------|---------------------------|-------|--------|-------------------------|----------------------|
| | 1979 | 1978 | 1977 | 1979 | 1978 | 1977 |
| EIA Estimate from Petroleum Statement, Annual ^b | 1,024 | 1,095 | 1,109 | /// | /// | /// |
| Comparative Estimates | | | | | | |
| EIA Estimate of Sales by Refiners (P-306) ^c | 796 | 832 | 847 | 80.8% | 79.6% | 80.1% |
| American Petroleum Institute Estimate of Deliveries ^d | 1,044 | 1,101 | 1,114 | 102.0% | 100.5% | 100.4% |

^{/// =} Not Applicable

Geographic Coverage: the 50 United States and the District of Columbia.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Comparisons of Monthly Estimates Over Time

Inaccuracies in petroleum data resulting from incomplete or delayed reports from respondents and from data processing errors are usually eliminated from the final PSA estimates. Such inaccuracies can still have important effects on the monthly estimates published in the Petroleum Supply Monthly and its predecessors. The following tables compare the initial monthly estimates published in the Monthly Petroleum Statistics Report and the Petroleum Statement, Monthly with the final monthly estimates published in the PSA. During 1977 – 1979, the Monthly Petroleum Statistics Report was published about 60 days after the end of the reporting month, and the Petroleum Statement, Monthly was published about 120-150 days after the end of the reporting month. The tables show that, both in terms of bias and in terms of standard deviation, the later estimates are consistently more accurate than the earlier estimates. In spite of this, the earlier estimates may have been more valuable to users of energy information because of the large difference in timeliness.

For purposes of comparison, the Petroleum Supply Monthly is scheduled to be published on about the same time lag as the Monthly Petroleum Statistics Report. Caution should be exercised, however, in drawing conclusions from this similarity. The Petroleum Supply Monthly uses improved data processing procedures developed and successfully implemented during 1981. In addition, since 1979, EIA has greatly improved the accuracy of its 60-day crude oil production estimates and is making progress in improving the accuracy of its 60-day import estimates.

^aVolumes are rounded to the nearest million 42-U.S. gallon barrels.

^bDerived From Table 2 in EIA's *Petroleum Statement Annual*, 1977, 1978, 1979. Refinery fuel use, subtracted from the figures in the source referenced below, has been reinstated in these estimates.

Derived from Table 1 of EIA's December issue of Petroleum Market Shares, Report on Sales of Refined Petroleum Products, 1977, 1978, 1979.

 $^{^{}d}$ API publishes monthly estimates in thousands of barrels per month of the volume of residual fuel oil delivered from primary storage. The initial published monthly estimate is derived from API sources, but in later API publications the estimates are revised using EIA data. The values shown in the table are equal to the sums of the initial published API monthly estimates of residual fuel oil multiplied by the number of days per month.

Initial Monthly Estimates of Production, Stocks, and Imports of Crude Oil As A Percent of EIA's Final Published Estimates ^a January 1977 – December 1979

| | | uction g Month | | Stocks At f Month | | ports g Month |
|---|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| | Mean Percent | Standard Deviation | Mean Percent | Standard Deviation | Mean Percent | Standard Deviation |
| EIA's Estimates from the Monthly Petroleum Statistics Report ^b | # 98.7% | 1.6% | # 98.3% | 1.4% | # 95.4% | 2.4% |
| EIA's Estimates from the Petroleum Statement, Monthly | # 99.6% | 0.6% | 100.0% | 0.1% | # 98.4% | 1.3% |

Initial Monthly Estimates of Products Supplied for Domestic Use as A Percent of EIA's Final Published Estimates $^{\rm R}$ January 1977 – December 1979

| | Motor | Gasoline | Distillat | e Fuel Oil | Residua | l Fuel Oil |
|---|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| | Mean Percent | Standard Deviation | Mean Percent | Standard Deviation | Mean Percent | Standard Deviation |
| EIA's Estimates from the Monthly Petroleum Statistics Report ^b | 99.9% | 1.3% | 99.9% | 2.3% | # 97.9% | 2.7% |
| EIA's Estimates from the Petroleum Statement, Monthly | 100.0% | 0.3% | 99.7% | 0.5% | 99.4% | 1.2% |

Initial Monthly Estimates of End-of-Month Primary Stocks As a Percent of EIA's Final Published Estimates $^{\rm a}$ January 1977 – December 1979

| | Motor Gasoline | | Distillate Fuel Oil | | Residual Fuel Oil | |
|--|-----------------|-----------------------|---------------------|-----------------------|-------------------|-----------------------|
| EIA's Estimates from the Monthly Petroleum Statistics Report | Mean Percent | Standard Deviation | Mean Percent | Standard Deviation | Mean Percent | Standard Deviation |
| | 99.7% | 0.8% | 99.7% | 1.1% | 100.1% | 0.7% |
| EIA's Estimates from the Petroleum Statement, Monthly | 99.9% | 0.2% | 100.0% | 0.1% | 100.1% | 0.5% |

[#] Represents a difference from 100% found to be statistically significant at the 95% level of confidence (n = 36).

[&]quot;Final monthly estimates are from the "Petroleum Statement, Annual" for 1977, 1978 and 1979. The mean percent is calculated as follows: each preliminary estimate is first expressed as a percent of EIA's final published estimate, these are then summed and the sum is divided by the number of estimates. The standard deviation is the square root of the quantity computed by summing the squared deviation of the percents from the mean percent and then dividing by the number of percents.

bBased on 36 initial estimates appearing in issues dated January 1977 - December 1979.

^eBased on 36 initial estimates appearing in issues dated January 1977 - December 1979.

SOURCE: An Assessment of the Accuracy of Principal Data Series of the Energy Information Administration, DOE/EIA-0292.

Note 4 Changes in Petroleum Industry Reporting

Petroleum statistics contained in this report for all years through 1980 were developed using definitions, concepts, reporting procedures and aggregation methods that are consistent with those developed by the U.S. Bureau of Mines. Research conducted by the Energy Information Administration in 1979 and 1980 indicated that changes had occurred in the petroleum industry that were not being adequately reflected in EIA's reporting systems.

EIA reporting forms, definitions, and procedures were modified beginning in January 1981 to describe industry operations more accurately. Unfortunately, empirical information is not available to precisely measure the data shortcomings throughout 1980. However, estimates of the magnitudes of differences in the major data series are described below to form a basis for comparing 1979, 1980, and 1981 data.

Motor Gasoline

Prior to 1979, the EIA product-supplied series for motor gasoline was consistently about 2 percent lower than the Federal Highway Administration (FHWA) gasoline-sales data series, which is derived from State tax receipts. This difference increased to about 4 percent in 1979 and 5 percent in 1980. There are two primary causes for this growing difference. First, refinery operations, particularly the flows of unfinished oils and the redesignation of some finished products, were not being accurately described on the EIA survey forms. Second, a large amount of gasoline was being produced away from refineries at "downstream blending stations" to take advantage of provisions in regulations governing the amount of lead that could be added. These blending stations were not reporting gasoline production to the EIA until the data system was changed in January 1981.

Quantitative estimates of the magnitude of the difference—in EIA's gasoline product supplied data in 1979 and 1980 have been made by the EIA and the American Petroleum Institute (API). The following table provides 1979 and 1980 data as published in the *Petroleum Statement Annual*, as well as EIA and API estimates of "recast" motor gasoline product supplied. EIA recast estimates were based upon preliminary monthly information in the *Monthly Petroleum Statement*. The ranges displayed in the EIA column reflect uncertainty in the estimates. Also shown are the FHWA motor gasoline sales statistics for those years. EIA has recently published a study of the quality of these FHWA data.

Office of Energy Information Validation, Energy Information Administration, U.S. Department of Energy, Error Profile of the Motor Fuel Taxation Data used to Establish and Monitor State Emergency Conservation Targets (Washington, D.C.: December, 1981).

Finished Motor Gasoline Product Supplied on Old and New Basis (Thousand Barrels per Day)

| | 1979 | | | | 1980 | | | | |
|---------|-----------------|---------------|-----------------|-------|-----------------|---------------|-----------------|-------|--|
| | EIA Reported | API Recast | EIA Recast | FHWA1 | EIA Reported | API Recast | EIA Recast | FHWA | |
| Jan | 6,830 | 7,230 | 7,084- 7,246 | 6,984 | 6,323 | 6,789 | 6,630- 6,791 | 6,672 | |
| Feb | 7,254 | 7,496 | 7,389- 7,568 | 7,538 | 6,596 | 6,983 | 6,831- 7,003 | 6,830 | |
| Mar | 7,229 | 7,414 | 7,301- 7,463 | 7,316 | 6,406 | 6,753 | 6,607- 6,768 | 6,713 | |
| Apr | 7,055 | 7,300 | 7,187- 7,353 | 7,375 | 6,800 | 7,014 | 6,886- 7,052 | 6,981 | |
| May | 7,213 | 7,429 | 7,313- 7,475 | 7,428 | 6,729 | 6,954 | 6,823- 6,984 | 7,044 | |
| Jun | 7,191 | 7,483 | 7,350- 7,516 | 7,441 | 6,657 | 6,966 | 6,824- 6,991 | 7,049 | |
| Jul | 6,902 | 7,241 | 7,105- 7,266 | 7,299 | 6,743 | 6,973 | 6,960 | 7,132 | |
| Aug | 7,330 | 7,546 | 7,426- 7,588 | 7,619 | 6,648 | 6,841 | 6,828 | 7,090 | |
| Sep | 6,881 | 7,122 | 7,016- 7,262 | 7,232 | 6,510 | 6,692 | 6,962 | 6,685 | |
| Nov | 6,791 | 7,068 | 6,956- 7,122 | 7,142 | 6,234 | 6,507 | 6,516 | 6,951 | |
| Dec | 6,730 | 7,106 | 6,966- 7,127 | 7,064 | 6,632 | 6,948 | 6,936 | 6,993 | |
| Average | 7,034 | 7,302 | 7,183- 7,347 | 7,309 | 6,579 | 6,882 | 6,806- 6,889 | 6,925 | |

¹FHWA gasoline statistics published in their 1979 Table MF-33G, 08-06-80, contain aviation gasoline as well as motor gasoline. Only motor gasoline data are included in published 1980 data. Consequently, the 1979 data shown above were reduced by subtracting aviation gasoline product supplied quantities as published by EIA in the 1979 Petroleum Statement Annual. The 1980 FHWA data published in their 1980 Table MF-33GA, August 1981, did not require this adjustment.

Distillate and Residual Fuel Oil

Distillate and residual fuel oil refinery production statistics through 1980 were adjusted to account for an imbalance between unfinished oil supply and disposition. The reported quantities of refinery inputs of unfinished oils typically exceed the available supply of unfinished oils. It has been assumed that this occurs when distillate and residual fuel oil produced by a refinery is shipped to another refinery, where it is treated as unfinished oil. This oil is then reprocessed rather than used or sold as distillate or residual fuel oil.

For many years (including 1980), the difference between unfinished oil disposition and supply was subtracted from distillate and residual fuel oil production to adjust for this discrepancy. Two-thirds of the difference was applied to distillate, and one-third to residual fuel oil.

Beginning in January 1981 this adjustment was discontinued because there was not sufficient empirical evidence to support it. The following table presents distillate and residual fuel oil refinery production in 1980 as published (adjusted) and on the same basis as 1981 statistics are now being completed (unadjusted) to permit comparison between 1980 and 1981 data series. Adjusted distillate and residual fuel oil product supplied volumes differ from the unadjusted volumes by the same amounts as the adjusted and unadjusted production volumes.

Adjusted and Unadjusted Refinery Production, and Unadjusted Product Supplied of Distillate and Residual Fuel Oils, by Month for 1979 and 1980 (Thousand Barrels Per Day)

1979

| Adj. Ref. Month Prod. | | Distillate | Fuel Oil | | Residual Fuel Oil | | | | |
|-----------------------------|-------------------------|------------|-------------------------------|-----------------------|-------------------------|-------|-------------------------------|-------|--|
| | Unadj. Ref. Prod. | Diff. | Unadj. Product Supplied | Adj. Ref. Prod. | Unadj. Ref. Prod. | Diff. | Unadj, Product Supplied | | |
| Jan. | 3.043 | 3,108 | 65 | 4,646 | 1,912 | 1,946 | 34 | 3,594 | |
| Feb. | 2,888 | 2,945 | 57 | 4,869 | 1,792 | 1,822 | 30 | 3,625 | |
| Mar. | 3,019 | 3,026 | 7 | 3,671 | 1,719 | 1,723 | 4 | 3,243 | |
| Apr. | 2,945 | 2,978 | 32 | 3,048 | 1,639 | 1,656 | 17 | 2,524 | |
| May | 3,066 | 3.093 | 27 | 3,025 | 1,586 | 1,600 | 14 | 2,517 | |
| Jun. | 3,153 | 3,187 | 35 | 2,743 | 1,548 | 1,566 | 18 | 2,601 | |
| Jul. | 3,305 | 3,344 | 38 | 2,601 | 1,575 | 1,594 | 20 | 2,471 | |
| Aug. | 3,321 | 3,359 | 38 | 2,799 | 1,584 | 1,603 | 20 | 2,570 | |
| Sep. | 3,354 | 3,306 | -48 | 2,599 | 1,627 | 1,602 | -25 | 2,584 | |
| Oct. | 3,251 | 3,217 | -34 | 3,085 | 1,629 | 1,612 | -17 | 2,523 | |
| Nov. | 3,239 | 3,200 | -39 | 3,208 | 1,736 | 1,716 | -20 | 2,795 | |
| Dec. | 3,221 | 3,238 | 17 | 3,725 | 1,894 | 1,903 | 9 | 3,022 | |
| Average | 3,152 | 3,169 | 16 | 3,327 | 1,687 | 1,695 | 8 | 2,834 | |

1980

| Month | | Distillate | Fuel Oil | | Residual Fuel Oil | | | | |
|---------|-----------------------|-------------------------|----------|-------------------------------|-----------------------|-------------------------|-------|-------------------------------|--|
| | Adj. Ref. Prod. | Unadj. Ref. Prod. | Diff. | Unadj. Product Supplied | Adj. Ref. Prod. | Unadj. Ref. Prod. | Diff, | Unadj, Product Supplied | |
| Jan. | 3,013 | 3,093 | 80 | 3,794 | 1,771 | 1,812 | 41 | 3,108 | |
| Feb. | 2,766 | 2,888 | 122 | 3,834 | 1,773 | 1,836 | 63 | 3,168 | |
| Mar. | 2,557 | 2,690 | 133 | 3,312 | 1,584 | 1,652 | 68 | 2,726 | |
| Apr. | 2,460 | 2,554 | 94 | 2,729 | 1,595 | 1,643 | 48 | 2,492 | |
| May | 2,474 | 2,610 | 136 | 2,538 | 1,509 | 1,579 | 70 | 2,305 | |
| Jun. | 2,646 | 2,721 | 75 | 2,392 | 1,575 | 1,613 | 38 | 2,359 | |
| Jul. | 2,689 | 2,783 | 94 | 2,343 | 1,480 | 1,528 | 48 | 2,339 | |
| Aug. | 2,461 | 2,582 | 121 | 2,258 | 1,444 | 1,506 | 62 | 2,348 | |
| Sep. | 2,686 | 2,726 | 40 | 2,627 | 1,495 | 1,516 | 21 | 2,380 | |
| Oct. | 2,589 | 2,650 | 61 | 2,981 | 1,512 | 1,543 | 31 | 2,258 | |
| Nov. | 2,703 | 2,823 | 120 | 3,069 | 1,579 | 1,641 | 62 | 2,513 | |
| Dec. | 2,891 | 3,052 | 161 | 3,776 | 1,660 | 1,743 | 83 | 2,762 | |
| Average | 2,661 | 2,764 | 103 | 2,969 | 1,580 | 1,634 | 54 | 2,562 | |

Total Petroleum Products

The imbalance between the supply and disposition of unfinished oils is now reported as part of the reclassified products (line 39) in the U.S. Petroleum Balance (Table 1). Imbalances between the supply and disposition of gasoline blending components comprise the remainder of the reclassified in Table 1. These imbalances are reported as negative product supplied in the Other Liquids section of the table of Supply and Disposition Statistics (Table 2). Since these changes only involve redistribution of the volumes of gasoline, distillate and residual fuel oil, gasoline blending components, and unfinished oils, the total volume of petroleum products supplied remains unaffected by them.

Note 5 Notes on Tables

- 5.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.
- Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.
- Natural Gas Plant Production is the sum of Natural Gas Plant Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Petroleum Products Exports is the sum of Natural Gas Plant Liquids and LRGs, Other Liquids, and Finished Petroleum Products Exports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.
- 5.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.
- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
- Total Imports appear in Table 4.
- 5.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.
- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousands of barrels in Table 2.
- 5.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.
- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Crude Used Directly, Exports, and Product Supplied appear as labeled in Table 4,
- Ending Stocks appear in thousands of barrels in Table 2.
- 5.5 Liquefied Petroleum Gases and Ethane statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2.
- 5.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.
- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 5.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3) of Table 1: Crude oil (including lease condensate) production for "Alaska," "Lower 48 States," and "Total U.S." are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 2.2), and taking the difference to equal production in the lower 48 states.
- Line (5) of Table 1: SPR imports are reported on Survey Form ERA-60.
- Line (12) of Table 1: "Total Other Sources" equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil plus crude used as fuel and losses in Table 2.
- Line (14) of Table 1; Natural gas plant liquids (NGPL) "Production" equals field production of natural gas plant liquids (NGPL) plus field production of finished petroleum products in Table 2.
- Line (15) of Table 1: NGPL "Imports" equals the sum of the imports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.
- Line (16) of Table 1: NGPL "Stock Withdrawal (+) or Addition (-)" is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) of Table 1 equals the sum of lines (14), (15), and (16) of Table 1.
- Line (18) of Table 1: unfinished oils and gasoline blending components "Stock Withdrawal (+) or Addition (-)" equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20) of Table 1: "Other Hydrocarbons and Alcohol New Supply" equals the field production of same in Table 2.
- Line (21) on Table 1: "Refinery Processing Gain" is a balancing item equal to total refinery production minus total refinery input in Table 2.
- Line (22) on Table 1: "Crude Used Directly" equals the sum of crude oil used directly as distillate and residual fuel oils in Table 2.
- Line (23) of Table 1: "Total Other Liquids" equals the sum of lines (18) through (22) of Table 1.
- Line (24) of Table 1: "Total Production of Products" equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or

addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil used as distillate and residual fuel oils in Table 2.

- Line (25) of Table 1: "Gross Imports of Refined Products" equals imports of LPG and ethane plus imports of finished petroleum products in Table 2.
- Line (26) of Table 1: "Exports of Refined Products" equals exports of LPG and ethane plus exports of finished petroleum products in Table 2.
- Line (27) of Table 1: "Net Imports of Refined Products" equals the difference between lines (25) and (26) of Table (1).
- Line (28) of Table 1: "Total New Supply of Products" equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil used as distillate and residual fuel oils; plus imports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products; minus exports of LPG and ethane and finished petroleum products in Table 2.
- Line (29) of Table 1: "Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and ethane, and finished petroleum products in Table 2.
- Line (30) of Table 1: "Total Petroleum Products Supplied for Domestic Use" equals total products supplied in Table 2.
- Lines (31) through (37) of Table 1 equal the respective products supplied in Table 2.
- Line (38) of Table 1: "Other Products Supplied" equals the sum of natural gasoline and isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock uses, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, and miscellaneous products supplied in Table 2.
- Line (39) of Table 1: "Total Reclassified" is a balancing item equal to the sum of unfinished oils, motor gasoline blending components, and aviation gasoline blending components products supplied in Table 2.
- Line (40) of Table 1: "Total Product Supplied" is equal to total products supplied in Table 2.
- The sum of lines (41) and (42) of Table 1, stocks of "Crude Oil and Lease Condensate (Excluding SPR)" and stocks held by the "Strategic Petroleum Reserve," equals ending stocks of crude oil in Table 2, SPR stocks are reported on Form EIA-90.
- Line (46) of Table 1, stocks of "Refined Products," equals the sum of LPG and ethane and finished petroleum product stocks in Table 2.